



DISTRICT OF HUDSON'S HOPE

Committee of the Whole

AGENDA

Council Chambers

Monday November 6th, 2017 at 6:00 PM

1. Call to Order:

2. Delegations:

D1 Bill Lindsay- Volunteers

3. Notice of New Business:

Mayor's List

Councillors Additions

CAO's Additions

4. Adoption of Agenda by Consensus:

5. Staff Reports:

SR1 Water and Sewer Rates

handouts

SR2 Solar Array

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C1 IAP2 invitation

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7. Public Inquiries:

8. Adjournment:

REQUEST FOR DECISION

RFD#:	Date: November 3, 2017
Meeting#: CW110617	Originator: Tom Matus, CAO
RFD TITLE: Remaining budget – solar array	

BACKGROUND:

Several solar array options have been proffered by Peace Energy Co-operative for the remaining solar array grant budget. Following are each of the options for Council choice and direction.

DISCUSSION:

1 CCN-0007-SP Option 1' for the Swimming Pool ground mount - solar array for pool only:

As per the attached Swimming Pool Option 1 document from PEC, this option provides a solar array for the pool that: depletes the grant budget; provides \$3,000 in savings per year, 25% of the electrical demand for the pool. It consists of 54 panels. Dimensions being 90' long by 10' wide; alternatively, two rows can be made 60' long and 30' long, the same width of 10'. The height being at the lowest (bottom of panel) 10' off the ground and extending to the highest (top of panel) at 21'. This model incorporates a wavy configuration to this model. The two-row model will need 25' separation between the two rows. So, this two-row model will require an area of approximately 90' by 41'.

2 CCN-0007-SP Option 2a' for the Swimming Pool in conjunction with the Museum and depletes budget:

This option reduces the panels at the pool from 54 to 32. This option does not provide full roof coverage of the museum, only one side of the museum's roof will have solar panels. as noted this option combines the pool and the museum. Dimension are 53' long by 2 panels wide (possibly 10' wide); the height being the lowest (bottom of panel) at 10' off the ground extending to highest (top of panel) at 21'. There is a wavy configuration to this model.

3 CCN-0006-M Option 2b' for the Museum in conjunction with the Swimming Pool and depletes budget:

This option does not provide full roof coverage of the museum roof, only one side of the museum's roof will have solar panels, as noted this option combines the museum and the pool.

4 CCN-0006-M Option 3' for the Museum as a standalone with both roofs maximized for solar, lowest financial return and leaves unused budget amount;

This option provides full roof solar panel coverage for the museum but does not deplete the budget. It provides 127% of the museums power demand so 27% will be realized as a net metering credit.

5 CCN-0006-M Option 4' for the Museum with a moderate solar array and leaves unused budget amount.

This option is the same as Option 3 but smaller, it is of no consequence or value to our purposes in deciding a course of action for pool / museum arrays unless we wanted to put a smaller array than option 3 provides to so as to utilize a greater amount of the remaining grant funds elsewhere.

6 PEC New configuration option for Swimming Pool Option 1:

"Install in a straight line without any curves (as with the lagoons array), however still elevate it so it is out of reach. This would still serve the other functions of being interactive in a public space and making power. The appearance would be known factor before it is installed."

7 PEC New consideration for Museum Option 3:

"If none of the pool options feel comfortable to the Council then we could look at placing the remaining budgetary (after the Museum decision) amount as a ground mount at the Water Treatment property (the same as at the Lagoons). For this location we may have to install fencing to limit access and would have to confirm if that could be included in the grant budget."

Further explanation of the above first 5 items are outlined in the attached PEC document entitled:

"Oct 20, 2017 Contemplated Change Notice #HHSI-0006-M for the Museum New Building and #HHSI-0007-SP for the Swimming Pool ground mount:"

Summation:

I've been conversing with Greg to determine a better understanding of the pool project; the following are his comments:

In regard to electrical schematics, Greg's reply:

"Our plan was to trench the cables from the solar array to the building. Then go up the wall (as unobtrusively as possible) to the roof. Then on the roof to the south end of the building and drop down into the green mesh walled area. Going up and over will avoid having to disturb too much of the grass, flowers and concrete sidewalk area with a

trench. At the south end of the building we would install the inverter within the green mesh fenced area so it is protected from the weather but not available to the public. We have been advised that the general pool utility room can possibly have caustic fumes – which would not be good for electronics.”

In regard to drawings, Greg's reply:

“sorry for any confusion regarding the 3D rendering. The picture that John-Paul has created is from the sizes we supplied and he did mock it up to scale. Hence the people and the building in the view. This drawing is based on a solar array as in Option 2A with the 32 PV modules (16 wide).

The larger array as in Option 1 would be another 11 PV modules wider for 27 PV wide (total of 54 PV modules). With option 1 these modules could be kept as one long array of approximately 90 ft long or split into two arrays separated about 20 feet between them, if the preference is not to have one long Wave.

I understand the sense that the design needs to be right, however the ‘Solar Wave’ is not an off the shelf design. It was an idea that was proposed to give the **District** a fully functional solar energy system with a signature design. We cannot point to one previously built and that’s why we went to the expense of having John-Paul do up a 3D rendering. It will require some artistic shaping of the materials to actually construct it.

If there is still concern for not knowing exactly what the array will look like and for the what the perception of it will be after it is installed, then perhaps we should look at other options or ultimately leave it off the table. A couple of options include:

- a) install in a straight line without any curves (as with the lagoons array), however still elevate it so it is out of reach. This would still serve the other functions of being interactive in a public space and making power. The appearance would be known factor before it is installed.
- b) If none of the pool options feel comfortable to the Council then we could look at placing the remaining budgetary (after the Museum decision) amount as a ground mount at the Water Treatment property (the same as at the Lagoons). For this location we may have to install fencing to limit access and would have to confirm if that could be included in the grant budget.

I think it is important to note that the name of Peace Energy Cooperative and Ron Moch is ultimately tied to the HHSI project as well. It is also in our best interest to make sure that we ‘get it right’ and have an array to be proud of. Ultimately we believe that we can construct a ‘Solar Wave’ that will look pleasing and fill the other roles as well.”

To note: If we put panels on both sides of the museum roof (options 3 or 4) then there will be no option for panels at the pool. The attached file HHSI 0006M and 0007 SP proposals explains this, so to further explain: there are limitations on size, there is a

minimum size inverter that can be installed at the pool which is a nine-kw inverter. In order to make that inverter work we need a minimum number of panels at the pool, option 2a reflects that minimum number of which cannot be achieved, due to budget restraints, if we fill both sides of the museum roof with panels. There will be an unused amount of the grant if we choose option 3, total museum panel installation, (or option 4, partial museum panel installation). There is not enough money to do anything with the pool while doing both sides of the roof of the museum.

To further note: choosing 2a & 2b does not provide total solar panel roof coverage on the museum, only one side of the roof of the museum will be covered.

I would not include option 4 as a choice as it is an array that is a little smaller than option 3 but bigger than option 2a; and, as mentioned, does not allow for panel installation at the pool. Consider option 4 if you prefer to use, in conjunction with the museum, more of the remaining grant funds for some other item within the scope of the project.

A photo is attached which shows, in red ribbon, the solar array footprint/area by the pool. The array has been split into two sections, one section is 60' l x 10' w x 20' h and the other section is 30' l x 10' w x 20' h. The 90' area would be too long to fit in this area. You may go to the pool and view the area.

BUDGET:

Nil. To utilize remaining Strategic Priority Grant funds.

RECOMMENDATION / RESOLUTION:

Administration and PEC recommend item **"1 CCN-0007-SP Option 1' for the Swimming Pool ground mount"** for the project as it provides \$150,000 electrical cost savings at the current BCH rates over the 50-year life expectancy of the solar panels, this is the greatest cost savings over all other aforementioned items/options.

Administration awaits Council's direction as to which project it wishes to proceed with.



Tom Matus, CAO

Oct 20, 2017

Contemplated Change Notice #HHSI-0006-M for the Museum New Building and #HHSI-0007-SP for the Swimming Pool ground mount:

Notes in regards to the Hudson's Hope Solar Initiative (HHSI) to date:

Peace Energy Cooperative - Moch Electric JV has been tasked with designing additional solar systems to work within the defined solar construction budget of \$1,280,000 for the Hudson's Hope Solar Initiative (HHSI) grant funding. The budget to date includes the following:

- The original RFP contract	\$ 706,046
- CCN-0001-A for the Arena upgrade	\$ 83,227
- CCN-0002-DO for the District Office upgrade	\$ 53,017
- CCN-0003-L for the Lagoon upgrade	\$ 224,308
- CCN-0004-BPFH for addition of the Beryl Prairie Fire Hall	\$ 19,657
- CCN-0005-BPFH for the Beryl Prairie Fire Hall upgrade	\$ 1,802
- CCN-0008-C for communications upgraded needed for the Lagoons and the Bullhead Curling Club	\$ 4,874
Total to date	\$ 1,164,391
 Budget remaining for other District solar arrays	 \$ 115,519

Summary of proposed next steps:

Although there are a number of options for how the remaining budget is allocated to various sizes of solar arrays at two locations (as explained below), we suggest that the most impact would be to direct the remaining budget to install a signature array we are referring to as the 'Solar Wave' (Option 1), at the Hudson's Hope Swimming Pool location.

Options for the remaining budget:

Although solar systems have flexibility in their design elements, there are also design factors that will dictate the final project. Some of the factors that we consider for each location include: the solar resource, the structure to be installed on, the electrical usage and potential savings of that metered account, the size of the electrical service at the location, the design and availability of the solar components and of course, budgetary constraints.

In regards to the HHSI project we are also considering the opportunity for leadership by the District for education and public engagement to show that solar is not just functional, environmentally responsible and a financial benefit, but can also be beautiful, artistic and interactive.

Option 3) a Maximized Museum array of 14.3 kW (without the 'Solar Wave')

\$ 47,737

Remaining Budget

\$ 67,782

With the Museum location we have been requested to review the option of covering both the southeast and northwest areas of the roof. This design would install 2 PV modules high by 11 wide on both sides for a total of 44 PV and around 14.3 kW. Power production is estimated to be 127% of average yearly usage.

Due to the array being roof mounted and the roof orientation and slope of this building the energy production however would not be maximized compared to a similar ground mount array. If this array were to be installed as designed there would not be enough funds remaining in the grant to install a system at the Swimming Pool. We would not suggest this option as it stands, unless extra funds were found to incorporate it along with the Swimming Pool proposal.



Option 4) A mid size solar array for the Museum of 10.2 kW (without the 'Solar Wave')

\$ 32,094

Remaining Budget

\$ 83,432

Option 4) is for our initial proposal for an array on the Museum designed as the same size as the Tourist Information Center at 10.2 kW. This would place 2 high by 11 wide PV on the southeast slope and 1 row 10 wide on the northeast slope as in this picture.

This array would produce an estimated 94% of average yearly electrical use and would be ideal for this building. However, the estimated cost would leave a substantial portion of the remaining budget unused. We would suggest that this array be installed along with Option 2a for the Swimming Pool should extra funding be available.



Summary:



1204-103rd Ave., Dawson Creek, British Columbia, Canada V1G 2G9
sales@peaceenergy.ca www.peaceenergy.ca ph: 250-782-3882

Contemplated Change Notice (CCN)

Date: October 10, 2017
email: sales@peaceenergy.ca
Phone /Fax: (o) 250-782-3882 (f) 250-782-3884

Project: **Hudson's Hope Solar Initiative**

Location & Info: **Swimming Pool - regarding the addition of a ground mount 'Energy Wave' array**

To: **Hudson's Hope District Office and Urban Systems Fort St John**

Attention: **Tom Matus, CAO and Eric Sears**

CCN # HHSI-0007-SP Option 1 Swimming Pool

Description:

- 1) The roof of the public swimming pool is already being optimized for a solar hot water heating array and we therefore propose a ground mount array in the grassy area to the north west of the building .
- 2) the Hudson's Hope Swimming Pool is a summer focal point for the community. Being located beside the athletic fields, the School and the road/parking lot represents an excellent opportunity to create a solar showpiece for the Hudson's Hope Solar Initiative embracing positive change for the future.

3) we propose a special ground mount solar array with an artistic flair. The array would comprise PV modules attached to a raised support structure to be located in the grassy area to the east of the parking lot and north west of the pool building which is a very visible location.

4) The PV array will be designed to allow for multiple curves. Being raised off the ground to keep the PV modules out of reach of curious hands (10 ft minimum off the ground) will also allow for the array to be used a weather shade from the sun. There could be an opportunity to install LED security and accent lighting, seating areas as future upgrades for a fully interactive area.

5) we propose this raised PV array be marketed as the **'The District of Hudson's Hope Solar Wave'**

6) this solar system is proposed as 54 PV modules of at least 320W each for a total of 17.3 kW and would produce an estimated 24,000 kWh/year which is about 25% of the 95,426 kWh used in an average year by the swimming pool.

Labour Cost:

- 1) in regards to item 6) labour relating to design, engineering review, material transport, install, and to fully commission the 17.3 kW solar system.
- 2) Including all electrical materials, cables, wires breakers and to connect with a CATSE cable to an existing internet portal

3) design and construct a custom fabricated structure to support the solar array

\$ 83,372.00

Material Cost:

In regards to item 6) 54 PV modules, one SolarEdge 14.4 kW 3 phase inverter, 27 P700 SolarEdge optimizers, all necessary extra flush mount FastRack racking and PV cable necessary to install on the custom made structure.

\$ 28,502.69

Other Costs:

\$ -

Permits and Fees:

\$ 3,447.50

Notes:

Approval Signature:

Per:

Taxable
amount
Taxable
amount

Total for this CCN	\$	115,322.19
115,322.19	GST	\$ 5,766.11
	PST	\$ -
Balance	\$	121,088.30



A Renewable Energy Joint Venture

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MOCH ELECTRIC LTD.

Contemplated Change Notice (CCN)

Date: October 10, 2017

email: sales@peaceenergy.ca

Phone /Fax: (o) 250-782-3882 (f) 250-782-3884

Project:

Hudson's Hope Solar Initiative

Location & info:

Swimming Pool - regarding the addition of a ground mount 'Solar Wave' array

To: Hudson's Hope District Office and Urban Systems Fort St John

Attention: Tom Matus, CAO and Eric Sears

CCN #

HHSI-0007-SP Option 2a Swimming Pool

Description:

- 1) The roof of the public swimming pool is already being optimized for a solar hot water heating array and we therefore propose a ground mount array in the grassy area to the north west of the building .
- 2) the Hudson's Hope Swimming Pool is a summer focal point for the community. Being located beside the athletic fields, the School and the road/parking lot represents an excellent opportunity to create a solar showpiece for the Hudson's Hope Solar Initiative embracing positive change for the future.
- 3) we propose a special ground mount solar array with an artistic flair. The array would comprise PV modules attached to a raised support structure to be located in the grassy area to the east of the parking lot and north west of the pool building which is a very visible location.
- 4) The PV array will be designed similar to the lagoons array but with curves and raised off the ground to keep the PV modules out of reach of curious hands (10 ft minimum off the ground). It would do double duty as a weather shade from the sun. There may be the opportunity to install LED security and accent lighting, seating areas and possibly USB charging ports if grant funds permit.
- 5) we propose this raised PV array be marketed as the 'The District of Hudson's Hope Solar Wave' to tie together the idea of the swimming pool, the changes to the future of energy and the environment.
- 6) this solar system is proposed as 32 PV modules of at least 320W each for a total of 10.2 kW and would produce an estimated 11,310 kWh/year which is about 12% of the 95,426 kWh used in an average year by the swimming pool. In the future this array could be expanded should funds be made available and this would allow for extra solar production to displace pool electrical use.

Labour Cost:

- 1) in regards to item 6) labour relating to design, engineering review, material transport, install, and to fully commission the 10.2 kW solar system.
- 2) Including all electrical materials, cables, wires breakers and to connect with a CAT5E cable to an existing internet portal

\$ 69,918.01

Material Cost:

In regards to item 6) 32 PV modules, one SolarEdge 9 kW 3 phase inverter, 16 P700 SolarEdge optimizers, all necessary racking materials and PV cable needed to install on the custom made support structure.

\$ 17,496.47

Other Costs:

\$ -

Permits and Fees:

Notes:

Approval Signature:

Per:

Taxable
amount
Taxable
amount

\$

Total for this CCN

89,714.48

GST

PST

Balance

\$ 2,300.00

\$ 89,714.48

\$ 4,485.72

\$ -

\$ 94,200.20



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MOCH ELECTRIC LTD.

Contemplated Change Notice (CCN)

Date: October 10, 2017

email: sales@peaceenergy.ca

Fax: 250-782-3884

Project:

Hudson's Hope Solar Initiative

Location & info:

Museum - in regards to adding the new Museum building as another HHSI location

To: Hudson's Hope District Office and Urban Systems Fort St John

Attention: Tom Matus, CAO and Eric Sears of Urban Systems

CCN #

HHSI-0006-M Option 2b

Description:

- 1) the newly renovated log building with a green metal roof on the Museum property is proposed as an added location for a solar PV system.
- 2) This CCN would comprise 22 PV modules flush mounted on FastRack solar racking to be placed on the south east (placing 22 PV modules in a 2 high by 11 wide configuration) with NO PV modules on the north west facing slope, for a total of 7.04 kW of PV, connected to a SolarEdge SE5000H inverter.
- 3) this system will connect to the electrical sub panel in the basement of this building. Through the existing underground connection to the main Museum building it will displace power used in the museum complex overall and will then create Net Meter credits with any excess power exported back to the grid as outflow.
- 4) this system of 7.04 kW system is estimated to produce 8,120 kWh/yr of electricity which would be expected to displace an estimated 72% of the average yearly energy use (11,317 kWh/yr).

Labour Cost:

- 1) in regards to item 2) labour relating to design, engineering review, material transport, install, and to fully commission the 7.04 kW solar system.
- 2) Including all electrical materials, cables, wires breakers and to connect with a CAT5E cable to an existing internet portal

\$ 10,940.00

Material Cost:

In regards to item 2) all solar materials including one SolarEdge 6 kW inverter (240V 1 Phase), code compliant label package, 22 x solar PV modules (expected to be Hanwha 320W 72 cell), 22 x P400 SolarEdge optimizers (single phase with one per PV module), all necessary flush mount FastRack racking for a metal roofed building, all Net meter applications

\$ 13,434.91

Other Costs:

\$ -

Electrical permit

Permits and Fees:

Note:

\$ 1,150.00

Approval Signature:

Taxable
amount
Taxable
amount

Total for this CCN \$ 25,524.91

25,524.91 GST \$ 1,276.25

PST \$ -

Balance \$ 26,801.15

Per:



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MOCH ELECTRIC LTD.

Contemplated Change Notice (CCN)

Date: October 10, 2017

email: sales@peaceenergy.ca

Fax: 250-782-3884

Project:

Hudson's Hope Solar Initiative

Location & info:

Museum - in regards to adding the new Museum building as another HHSI location

To: Hudson's Hope District Office and Urban Systems Fort St John

Attention: Tom Matus, CAO and Eric Sears of Urban Systems

CCN #

HHSI-0006-M Option 3

Description:

- 1) the newly renovated log building with a green metal roof on the Museum property is proposed as an added location for a solar PV system.
- 2) the solar system is being proposed as either a 14.3 kW solar array to fill both the southeast and northwest areas of the roof.

3) This CCN would comprise 44 PV modules flush mounted on FastRack solar racking as 2 high by 11 wide of PV connected to two SolarEdge SE500H inverters.
4) this solar system will connect to the electrical sub panel in the basement of this building. Through the existing underground connection to the main Museum building it will displace power used in the museum complex overall and will then create Net Meter credits with any excess power exported back to the grid as outflow.
5) this upgrade would allow for a total system size of 14.3 kW system and is estimated to produce 14,420 kWh/yr of electricity which would be expected to displace an estimated 127% of the average yearly energy use (11,317 kWh/yr).

Labour Cost:

- 1) in regards to item 3) labour relating to design, engineering review, material transport, install, and to fully commission the 14.3 kW solar system.
- 2) Including all electrical materials, cables, wires, breakers and to connect with a CATSE cable to an existing internet portal

\$ 18,400.00

Material Cost:

In regards to item 2) all solar materials including two SolarEdge 5kW inverter (240V 1 Phase), code compliant label package, 44 x solar PV modules (expected to be Hanwha 320W 72 cell), 44 x P400 SolarEdge optimizers (single phase with one per PV module), all necessary flush mount FastRack racking for a metal roofed building

\$ 27,734.08

Other Costs:

\$ -

Permits and Fees:

Electrical permit

Note:

\$ 1,603.75

Approval Signature:

Taxable
amount
Taxable
amount

Total for this CCN \$ 47,737.83

47,737.83 GST \$ 2,386.89

PST \$ -

Balance \$ 50,124.72

Per:



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MOCH ELECTRIC LTD.

Contemplated Change Notice (CCN)

Date: October 10, 2017

email: sales@peaceenergy.ca

Fax: 250-782-3884

Project: **Hudson's Hope Solar Initiative**

Location & info: **Museum - in regards to adding the new Museum building as another HHSI location**

To: **Hudson's Hope District Office and Urban Systems Fort St John**

Attention: **Tom Matus, CAO and Eric Sears of Urban Systems**

CCN # **HHSI-0006-M - Option 4**

Description: 1) the newly renovated log building with a green metal roof on the Museum property is proposed as an added location for a solar PV system.
2) the solar system is being proposed as either: a) a 10.24 kW {HHSI-0006-M} or b) a 7.04 kW {HHSI-0006-M REDUCED} solar array depending on the final decision of the Museum council.

3) This CCN {HHSI-0006-M} would comprise **32 PV modules** flush mounted on FastRack solar racking to be placed on the south east (22 PV modules as 2 high by 11 wide) and the north west facing slopes (10 PV modules as 1 high and centered on the roof) for a total of 10.24 kW of PV connected to a SolarEdge SE7600A inverter.
4) this solar system will connect to the electrical sub panel in the basement of this building. Through the existing underground connection to the main Museum building it will displace power used in the museum complex overall and will then create Net Meter credits with any excess power exported back to the grid as outflow.
5) this upgrade would allow for a total system size of 10.24 kW system and is estimated to produce 10,670 kWh/yr of electricity which would be expected to displace an estimated 94% of the average yearly energy use (11,317 kWh/yr).

Labour Cost: 1) in regards to item 3) labour relating to design, engineering review, material transport, install, and to fully commission the 10.24 kW solar system.
2) Including all electrical materials, cables, wires, breakers and to connect with a CAT5E cable to an existing internet portal

\$ **11,798.00**

Material Cost: In regards to item 2) all solar materials including one SolarEdge 7.6 kW inverter (240V 1 Phase), code compliant label package, 32 x solar PV modules (expected to be Hanwha 320W 72 cell), 32 x P400 SolarEdge optimizers (single phase with one per PV module), all necessary flush mount FastRack racking for a metal roofed building

\$ **19,146.78**

Other Costs:

\$ **-**

Electrical permit

Permits and Fees:

Note:

\$ **1,150.00**

Approval Signature:

Taxable
amount
Taxable
amount

\$

Total for this CCN

\$ **32,094.78**

32,094.78

GST

\$ **1,604.74**

PST

\$ **-**

Per:

Balance

\$ **33,699.52**





PEACE RIVER REGIONAL DISTRICT

**The Peace River Regional District Board
would like to invite you to attend the:**

International Association
for Public Participation (IAP2)

Public Participation for Decision Makers Course

*This course is for PRRD Directors, Alternate Directors, Mayors,
Municipal Councils and CAOs/City Managers in the region.*

This IAP2 course will address:

How public participation ties into the decision making process.
When and why to have the public participate in decision making.
What the decision makers role is.
Key concepts that should be considered when involving others.

DATE: November 9, 2017 from 5–9 pm

WHERE: Peace River Regional District, Dawson Creek

*A light meal will be provided at 4:45
Attached is the outline of the course goals and agenda.*

Please RSVP your attendance ASAP

diverse. vast. abundant.

What, Why and How to Involve Others in Your Decisions



Public Participation for **Decision Makers**

iap² international association
for public participation

www.iap2.org



Acknowledgements

The International Association for Public Participation gratefully acknowledges the contributions of many individuals in the development of IAP2's training courses. This course was developed by Mary Hamel. IAP2 also acknowledges the contribution of the Orbits of Participation by Lorenx Aggens. IAP2 acknowledges and appreciates the contributions of many others in the field of public participation. We hope they will recognize some of their ideas and inspirations, which have helped shape this course.

The International Association for Public Participation gratefully acknowledges the contributions of many individuals in the development of the Foundations Program.

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COURSE GOALS AND AGENDA



Course Goals

At the conclusion of this course, decision makers will have learned:

- How public participation ties into their decision-making processes
- When and why to have the public participate in their decisions
- The decision maker's unique role and commitment
- Key concepts that must be considered to be effective when involving others

Agenda

- What is public participation?
- Why involve the public? What are the risks, benefits, and costs associated with public participation?
- When wouldn't you involve the public?
- Critical components and considerations for effective public participation:
 - Clarify the decision and decision-making process
 - Develop a full understanding of who needs to be involved
 - Define the appropriate level of public participation
 - Embrace the core values of public participation
 - Design your public participation process, reflecting values and resources
 - Evaluate and adapt, continuously
- Roles and commitments
- Summary and evaluation

The core content and learning outcomes of *Public Participation for Decision Makers* are addressed in all sessions of the course; however, examples provided may vary depending on the personal experiences of the trainer delivering the session, and the collective, specific needs and interests of class participants.