Virtual Power Plants Activity Sheet

synergy Schools Solar Challenge

Virtual Power Plants (VPPs)

Have you heard of the Schools VPP Pilot Project? It's a WA State Government program which aims to transform participating schools into a VPP to explore the potential of VPP technology here in WA.

CRACK THE VPP CODE

Use this code to help complete the sentences below as you learn about VPPs:

A=1	B=2	C=3	D=4	E=5	F=6	G=7	H=8	I=9	J=10	K=11	L=12	M=13
N=14	O=15	P=16	Q=17	R=18	S=19	T=20	U=21	V=22	W=23	X=24	Y=25	Z=26

A VPP (or virtual power plant) is a 14-5-20-23-15-18-11 of distributed energy resources such as solar PV systems, batteries and electric vehicles.

The energy from distributed energy resources in a VPP is 1-7-7-18-5-7-1-20-5-4 and sent out to be used as needed to provide the same services to the electricity system as a traditional power plant.

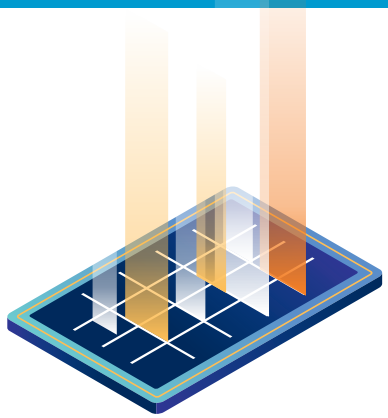
For the schools involved, their rooftop solar PV system will help to power the school during the day and 5-24-3-5-19-19 solar energy will be stored for later use or shared.

VPPs could reduce the need for traditional large-scale 7-5-14-5-18-1-20-9-15-14 assets such as coal-fired or gas power stations. They may also reduce the need for long-distance electricity distribution networks to transport electricity to customers in the future.

This project could help assist WA schools to manage their electricity 3-15-14-19-21-13-16-20-9-15-14 and take an important step towards a more sustainable future.

It is known as a 16-9-12-15-20 program since this is the first time a project like this has been explored in WA. It is an exciting opportunity to transform some WA schools into smart, greener, flexible VPPs as we explore how to manage electricity system security and sustainability.

Virtual Power Plants (VPPs):
Answers



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A VPP (or virtual power plant) is a 14-5-20-23-15-18-11 of distributed energy resources such as solar PV systems, batteries and electric vehicles.

NETWORK

The energy from distributed energy resources in a VPP is 1-7-7-18-5-7-1-20-5-4 and sent out to be used as needed to provide the same services to the electricity system as a traditional power plant.

AGGREGATED

For the schools involved, their rooftop solar PV system will help to power the school during the day and 5-24-3-5-19-19 solar energy will be stored for later use or shared.

EXCESS

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GENERATION

This project could help assist WA schools to manage their electricity 3-15-14-19-21-13-16-20-9-15-14 and take an important step towards a more sustainable future.

CONSUMPTION

It is known as a 16-9-12-15-20 program since this is the first time a project like this has been explored in WA. It is an exciting opportunity to transform some WA schools into smart, greener, flexible VPPs as we explore how to manage electricity system security and sustainability.

PILOT