



**RENEWABLE  
ENERGY  
MARKETS**  
**CONFERENCE**  
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# Interaction with Carbon Markets

Opportunities and challenges selling carbon offsets versus RECs, and market trends for renewable energy-derived carbon offsets

*Panelists:*

**Jay Carlis, Community Energy, Inc.**

**Justin Felt, Point Carbon**



**Molly Peters-Stanley, Ecosystem Marketplace**

*Moderator:*

**Todd Jones, Center for Resource Solutions**

*Thursday, October 21, 2010 11:15 am*

# Types of Carbon Markets

	Compliance	Voluntary
Emissions (allowances)	<b>1</b> <b>Cap-and-trade</b> EU ETS, RGGI, (WCI, CA AB32, MGA, U.S. Fed)	<b>2</b> <b>Voluntary Cap-and-trade</b> CCX
Emissions Reductions (offsets)	<b>3</b> <b>Compliance Offsets</b> CDM, RGGI Offsets, (offsets for CA AB32, WCI, MGA compliance)	<b>4</b> <b>Offsets</b> OTC, exchanges  



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# Types of Renewable Energy Markets

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Renewable Energy Generation	<p><b>1</b></p> <p><b>RPS/RES</b> 29 U.S. States, (Federal/National)</p>	<p><b>2</b></p> <p><b>RECs, Green Power</b> Electricity Grid – North America, Australia, Europe, elsewhere</p>



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## Interactions

## Renewable Energy Markets

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## Interactions

4 and 2

4

1 and 2

2 & 3



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## 4. offset definition

An offset is an environmental commodity or product that represents the reduction of a specific amount of greenhouse gas (GHG) emissions. Offsets are generated by project-based activities located away from the source of emissions that are to be offset by the purchase.

## 4. offset project types

renewable energy

energy efficiency

agriculture/forestry/land use

methane destruction

industrial gas destruction

## 4. offsets vs. 2. RECs

<b>different commodities</b>	<b>REC</b>	<b>offset</b>
<b>different units</b>	<b>MWh</b>	<b>tons (or lbs) CO<sub>2</sub>e</b>
<b>different benefits</b>	<b>all attributes of renewable generation</b>	<b>carbon emissions reductions</b>
<b>different scope of market</b>	<b>North America (contiguous electricity grid)</b>	<b>global</b>
<b>different uses</b>	<b>scope 2 GHG emissions, any other environmental impact of conventional electricity usage</b>	<b>all scopes of GHG emissions</b>

**additionality**



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