

# IOWA STATE UNIVERSITY

## Hexcrete Tower Project (DE-EE0006737)



## Hexcrete Commercialization Workshop

Sri Sritharan  
Iowa State University



Office of Energy Efficiency & Renewable Energy

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## Energy Department Announces \$2 Million to Support Manufacturing of Taller Wind Turbine Towers

September 17, 2014 - 9:53am



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This Morning at the [American Energy and Manufacturing Competitiveness Summit](#), Assistant Secretary for Energy Efficiency and Renewable Energy, Dr. David Danielson, announced \$2 million through the [Taller Hub Heights funding opportunity](#), for two organizations that will advance wind energy technologies for harnessing stronger winds available at higher heights, potentially increasing the amount of clean, renewable electricity the nation produces.

Through innovative construction processes that will cost-effectively manufacture taller wind turbine towers, these projects in Iowa and Massachusetts will help reduce the cost of wind energy and expand the geographic areas where wind turbines can successfully be economically deployed in the United States.

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## Project Sponsors and Partners

**Hexcrete Tower for Harvesting Wind Energy  
at Taller Hub Heights (DE-EE0006737)**

Project Website:

<http://sri.cce.iastate.edu/hexcrete/>

Sponsors:



**Hexcrete Tower Project**



## Collaborating Partners

**IOWA STATE  
UNIVERSITY**

**SIEMENS**



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## Other Industry Partners

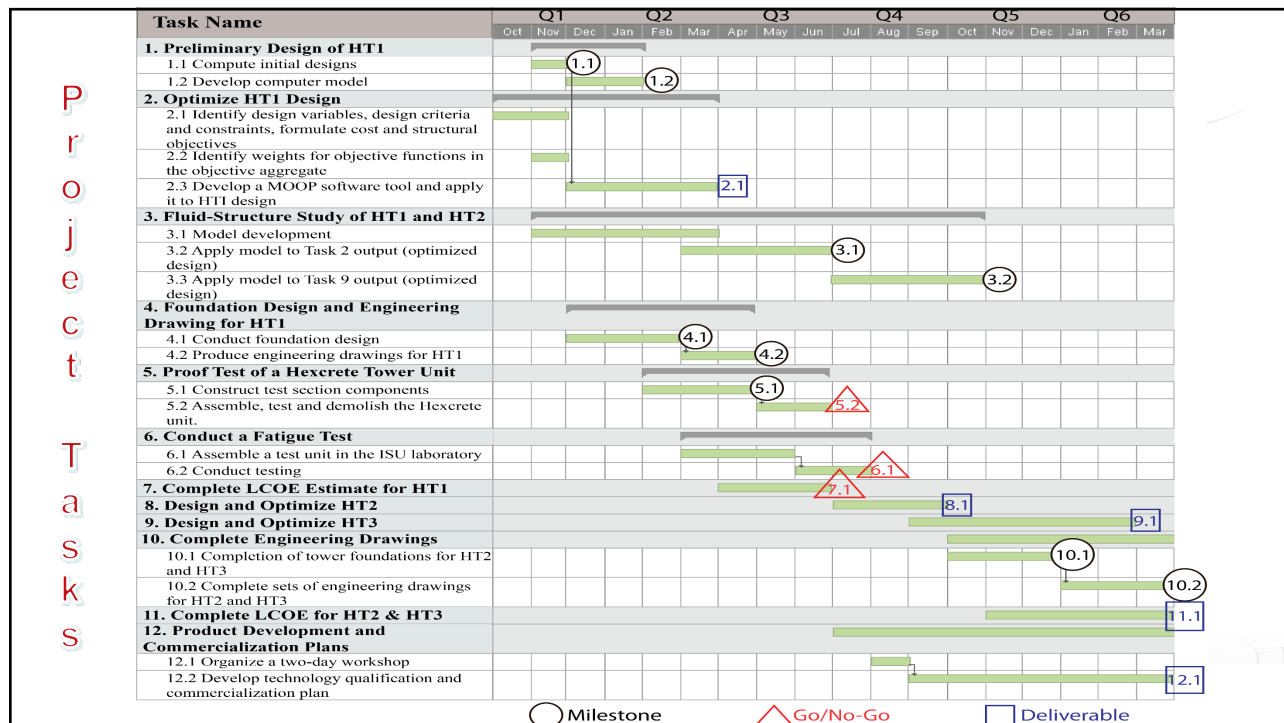
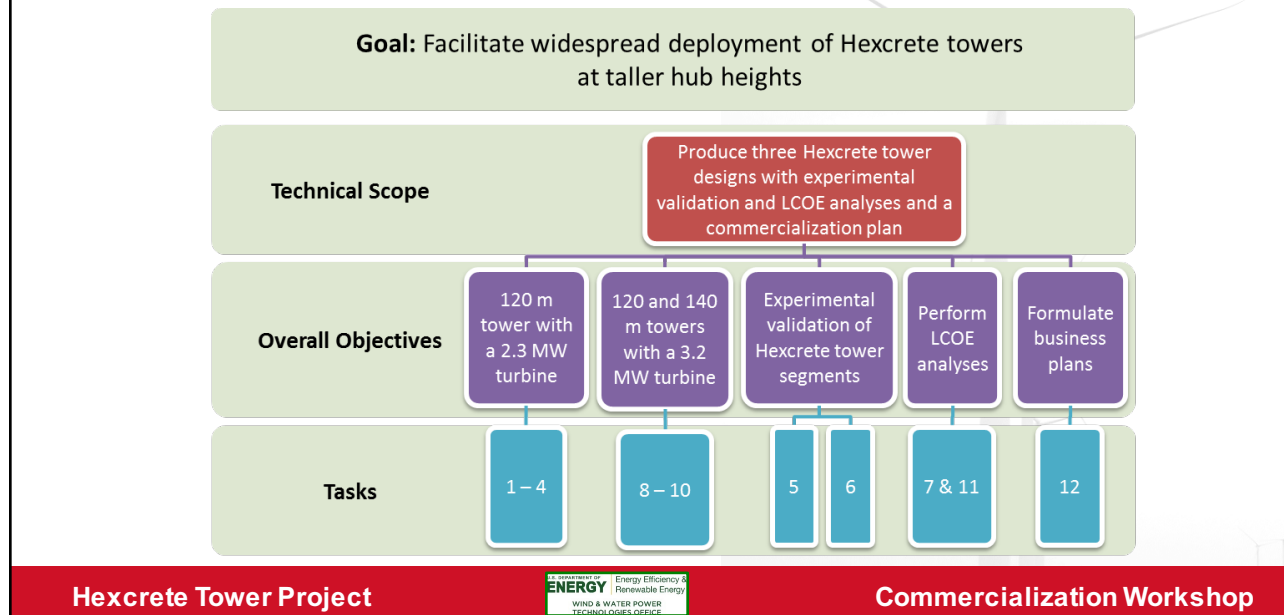


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## Goal and Tasks



## Overall Objective

Present wind resources at elevated hub heights and showcase Hexcrete technology as an excellent choice for constructing tall wind turbine towers and reducing levelized cost of energy (LCOE).

## Technology Presentation

Keynote Presentation - 1	
1. U.S. DOE Wind Program Overview – Enabling Wind Nationwide – <i>Megan McCluer, DOE</i>	8:45 am
Hexcrete Tower Technology	
2. Concept and Benefits – <i>Sri Sritharan, ISU</i>	9:15 am
3. Tower Design – <i>Robert Peggar, ISU</i>	9:30 am
4. Tower Optimization – <i>Elaine Tang, SIEMENS Corporate Tech.</i>	9:45 am
5. Foundation Design – <i>Markus Wernli, BergerABAM</i>	10:00 am
<i>Coffee Break</i>	10:15 am
6. Tower Fabrication and Structural Testing – <i>Todd Culp, Coreslab Omaha; and Sri Sritharan, ISU</i>	10:30 am
7. Tower Assembly, Scheduling and LCOE – <i>Phil Barutha, ISU; David Jeong, ISU; and Tyler Stehly (NREL)</i>	10:45 am
8. Q/A and Discussion – <i>Julienne Krennrich (Lead)</i>	11:10 am

## Tall Wind

Tall Wind Characterization	
1. Wind Energy Potential in the Midwest at Higher Hub Heights – <i>Gene Takle, ISU</i>	11:30 am
2. Using SoDAR Wind Profiling to Characterize Winds at Hub Height and Beyond – <i>Nic Wilson, Vaisala</i>	11:45 am
3. Q/A and Discussion – <i>Sri Sritharan (Lead)</i>	12:00 pm
<i>Lunch (Atrium)</i>	12:10 pm

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## Afternoon Sessions

<p><b>Panel Discussion – Hexcrete/Tall Tower Implementation</b>  <i>Lead: Jason Cottrell, NREL; Members: Markus Wernli, BeregrABAM; Kirk Morgan, BARR; Chandler Thomas, Mortenson; and David Dieter, Midstate Precast</i></p>
<p><b>Discussion on Prototyping of a Hexcrete Tower (Vail Room) – Participation Optional</b>  <i>Lead: Sri Sritharan, ISU; Julianne Krennrich, ISU</i></p>

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