

An aerial night view of a city skyline, likely Chicago, with numerous skyscrapers and illuminated streets. A large blue semi-transparent rectangle is overlaid on the lower half of the image, containing white text. The text is arranged in three lines: a large title, a speaker name and affiliation, and a date. The background image shows a mix of urban buildings, green spaces, and a highway with light trails from traffic.

Maximizing the Positive Impact of Third Party Financing

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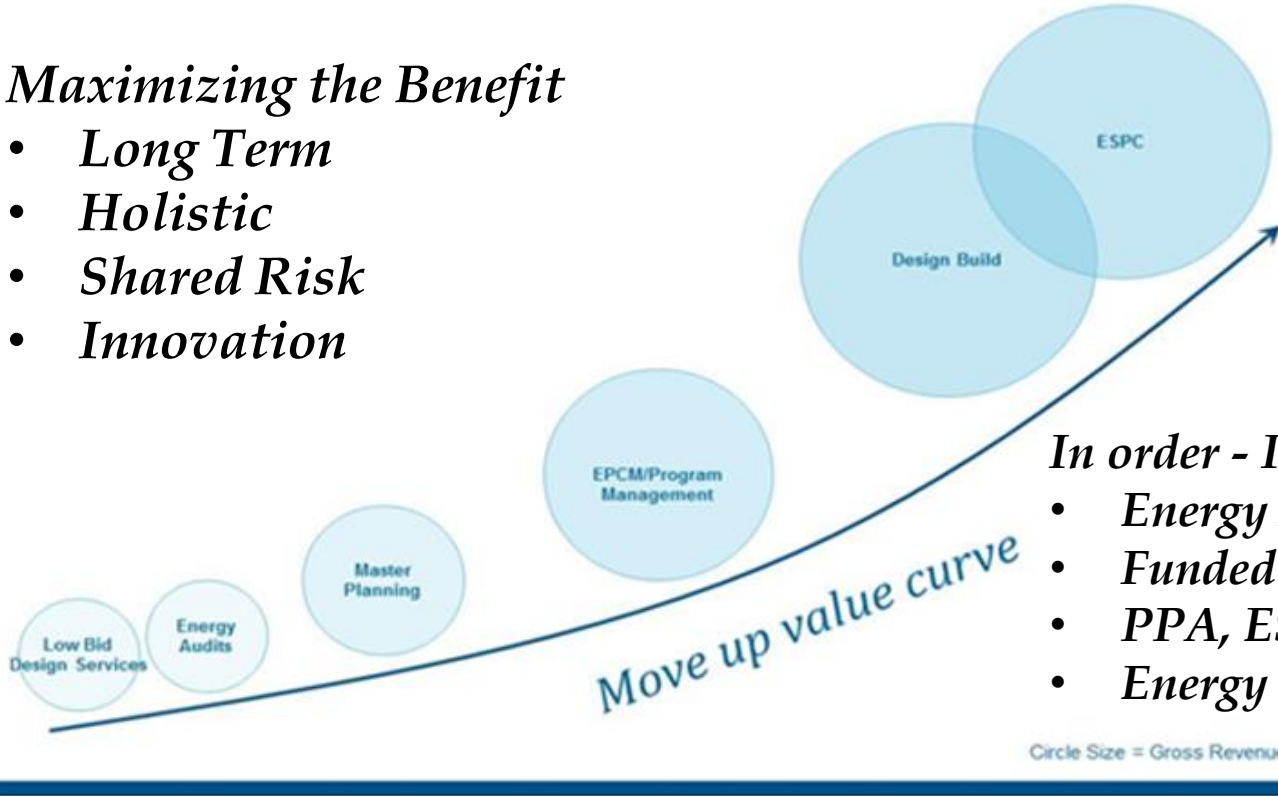
19 July 2017

Creating Energy Value

Value Creation

Maximizing the Benefit

- *Long Term*
- *Holistic*
- *Shared Risk*
- *Innovation*



In order - Increasing Benefits

- *Energy Audits*
- *Funded Energy Projects*
- *PPA, ESPC/UESC*
- *Energy as a Service*

Holistic, Term, Risk



Maximizing Energy Value

Getting the most out of P3 Energy projects

- Maximize the use of Performance Contracting
 - ✓ Shared Risk
- Recognize all cost savings
 - ✓ Energy, O&M, Maint & Repair, Replacement
- Determine the value of Energy Security
 - ✓ Determine an acceptable method to Monetize
- Use limited appropriated funds to leverage P3 funding

Benefits of Shifting Risk

- Increased Accountability
- Minimizes cost overruns
- Performance Assured (guaranteed)

WHAT IS RESILIENCE?



Energy Resilience

- Reliability
- Power quality
- Islanding capability
- Distributed resource deployment and optimization
- Load balancing
- Energy efficiency and demand response
- Renewable and battery storage



Community Resilience

- Holistic View
- Ability to bounce back from shocks
- Minimization of chronic stresses
- Infrastructure and critical service preparedness
- Overall community socioeconomic condition
- Public and environmental health



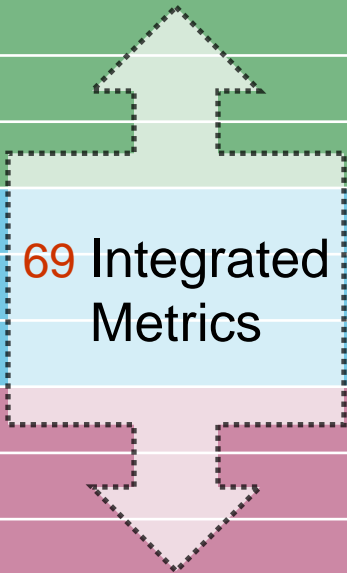
Critical Infrastructure Resilience

- Emergency planning, preparedness, response and recovery
- Infrastructure and emergency service dependency
- Targeted service to vulnerable populations
- Cyber Security

Integrated Resilience Metrics, Benefits, Synergies

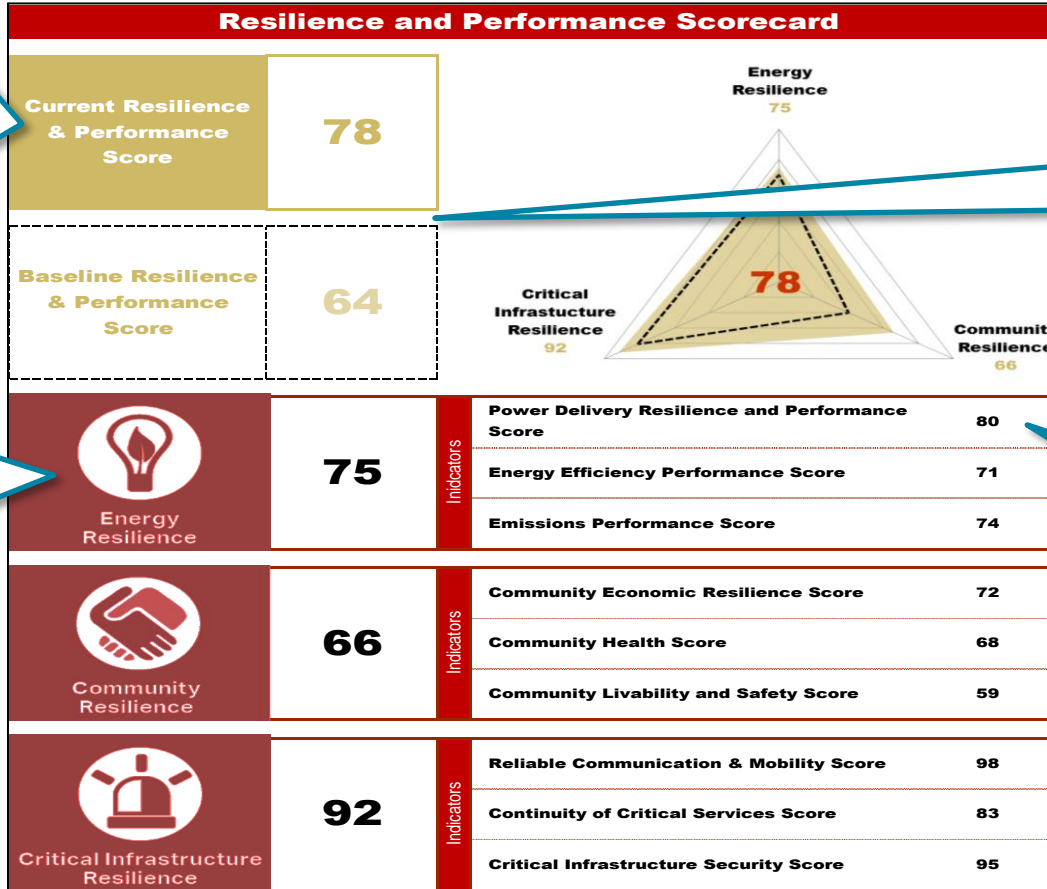
FRAMEWORK FOR DEVELOPED METRICS

First of its kind integrated resilience framework captures system-wide benefits and synergies

| | <i>Indicators</i> | <i>Metrics</i> |
|------------------------------------|---|--|
| Energy System Resilience | Power Delivery Resilience & Performance |  69 Integrated Metrics |
| | Energy Efficiency Performance | |
| | Emissions Performance | |
| Critical Infrastructure Resilience | Reliable Communication & Mobility | |
| | Continuity of Critical Services | |
| | Critical Infrastructure Security | |
| Community Resilience | Community Economic Resilience | |
| | Community Health | |
| | Community Livability and Safety | |

OPERATIONALIZATION: METRIC SCORECARD

The **Resilience Score** will be a weighted average of the **Resilience Areas**



Allows comparison of scores across years

Each **Area** will be a weighted average of its **Indicators**

Each **Indicator** is a weighted average of its **Metrics**

An aerial night view of a city skyline, likely Chicago, with numerous skyscrapers and illuminated streets. A large blue semi-transparent overlay covers the lower half of the image. The text 'Questions & Discussion' is written in white on this overlay. In the bottom left corner, the date '19 July 2017' is displayed. The background image shows a mix of urban architecture, including modern high-rises and older buildings, with light trails from traffic on a highway in the foreground. The sky is a deep twilight blue.

Questions & Discussion

AECOM

19 July 2017