

SUSTAINABLE INNOVATIONS

On *Sustainable Innovations* we began with the Sustainable Dubuque priorities ...



and goals:



... to create, foster and prioritize the best opportunities for improving the sustainability of Dubuque and the continued economic growth of the Greater Dubuque region.

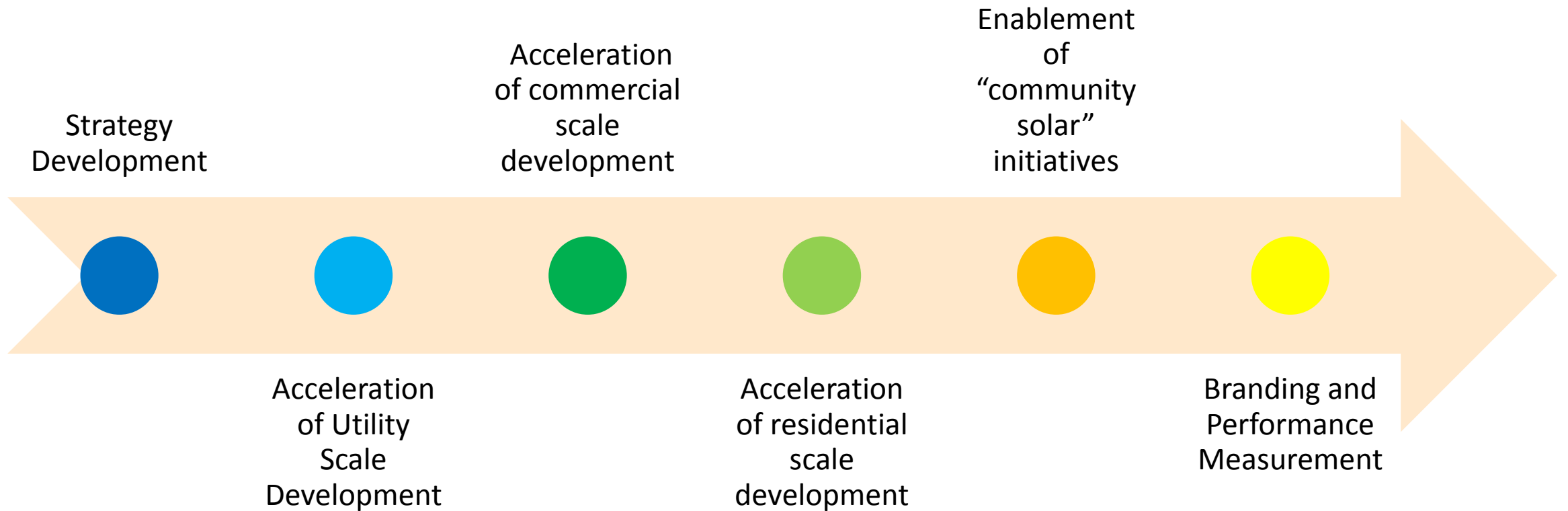
Energy Innovation: Prioritization Criteria

- Does it support Sustainable Dubuque strategy?
- How significant is it in size/impact?
- What would be the costs to pursue?
- How achievable is it within relevant timeframes?
- How well do the community's assets (public and private) align with such an effort?
- How well does it leverage other value criteria (such as creation of jobs, support of local industry, engagement of citizens, improved quality of life)

Energy Innovation: Prioritization

- Energy Efficiency
- Biogas
- Solar
- Hydro-electric
- Wind

Moving “Solar Dubuque” Forward



Alliant, city forge solar deal

Energy company plans Dubuque project as its largest within an Iowa city.

BY JEFF MONTGOMERY
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A solar energy system planned for installation next year in Dubuque would be the largest project of its kind in any Iowa city, potentially providing a blueprint for solar's growth across the state.

Alliant Energy plans to install solar panels at two sites



covering 32 acres in Dubuque to form the largest solar system created by the utility, said Zachary Hill, senior manager



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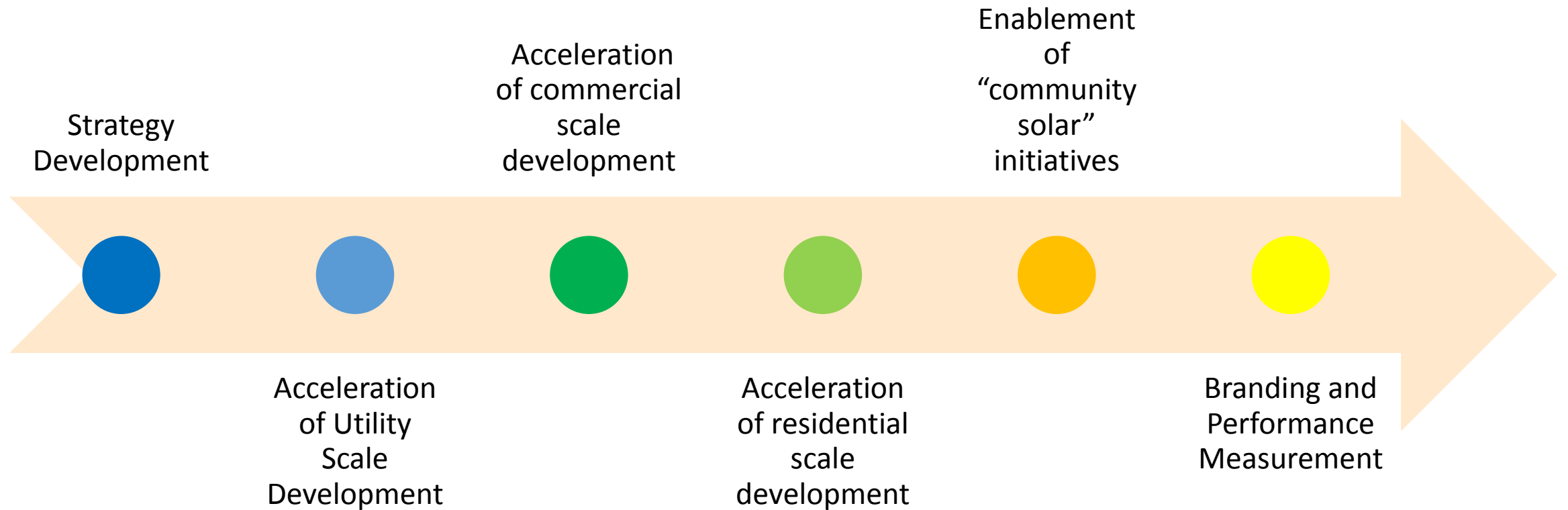
of business development. Hill said construction likely will begin in the spring and should be completed by late summer.

Hill said the majority of solar panels would be installed on 26 acres north of Humke Road and just west of the city's existing industrial parks. Alliant also will install panels on 6 acres owned by manufacturer A.Y. McDonald along U.S. 61/151, near the 16th Street detention basin.

The solar arrays will be capable of producing 4 megawatts in ideal conditions, officials said. Operating at this capacity, it could power 560 homes, according to

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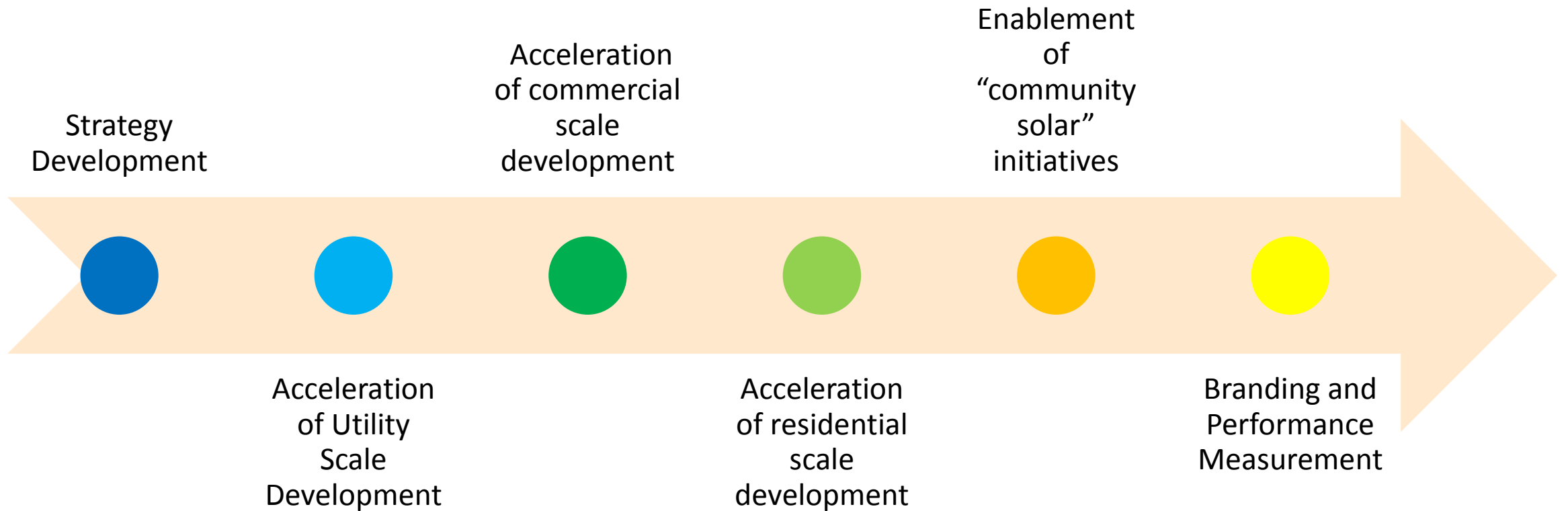
Moving “Solar Dubuque” Forward



SOLAR ON CITY FACILITIES



Moving “Solar Dubuque” Forward



CITY STRATEGIES: RESIDENTIAL

- ▶ Local policy encourages renewable energy
- ▶ Rooftop solar permit is simple electrical permit
- ▶ Architectural Guidelines inform placement of historically-appropriate solar placement
- ▶ Unified Development Code encourages solar-oriented development
- ▶ Ground-mount solar allowed as accessory use
- ▶ Review of zoning and permitting processes to reduce soft costs to residential and commercial solar
- ▶ New solar permit will allow smoother application & easier tracking
- ▶ Improved transparency & public education
- ▶ City-owned rehabs will be solar-ready

Moving “Solar Dubuque” Forward

