THE CONCEPT
The University of Nevada, Las Vegas (UNLV) and its community partners are proposing a new Solar Solutions Center, which will establish UNLV as a national center of excellence (a one-stop-shop) for solar energy deployment and will prepare future leaders that will support a renewable energy economy. The Center is designed to employ research, policy analysis, and business community outreach to create solar energy industry jobs, improve technology, develop pro-solar policies, and coordinate financial and intellectual resources.

CENTER STRUCTURE, GOALS, AND OUTPUTS
The Center will have three clusters: Research and Development, Policy and Analysis, and Business Services. The **Research and Development** cluster will focus on research issues that are relevant to the deployment of solar energy. The **Policy and Analysis** cluster will focus on legal, regulatory, economic, financial, and organization issues that must be addressed to accelerate the deployment of solar projects. The **Business Services** cluster will reach out to the business and governmental sectors to enhance understanding of energy-related issues. In addition, this cluster will provide key support services for all parts of the Center. Assessment of the Center success will be conducted through external review boards consisting of leaders in the business community, government sector, and research. Annual site visits by review panels will provide valuable feedback for continuous improvement in meeting Center goals.

The specific **goals** of the Center will be:
- Facilitate a rapid expansion of an economic innovation cluster for solar energy that will lead to new jobs in the region.
- Advance sustainable solar deployment in the region and beyond.
- Expand the research and development capacity with a focus on deployment issues.
- Create a new resource for analysis of national and regional energy policy.
- Grow a workforce and future leaders that support a clean energy economy.

The **outcomes and deliverables** will be:
- The addition of 11 nationally recognized faculty (in engineering, science, business, law, and policy) who will expand research capacity through new grants and contracts.
- A “one-stop-shop” service center where policy and decision makers will join to address important issues and seek data. Outputs will include key reports and studies that address relevant deployment issues.
- New education programs that support the growth of the renewable energy sector and address emerging workforce needs.
- Broad support and incentives for businesses either directly or indirectly related to the solar energy industry. This includes new technology transfer and commercialization capacity.
- Establishment of a World Clean Energy Forum that will be held yearly.
BUDGET AND LIFE CYCLE OF CENTER (A FINANCIALLY SUSTAINABLE CENTER)

- $5.3 million needed for Year 1 startup
- Seven-year projections demonstrate the long-term sustainability of the Center
- Over the first five years, projected expenditures are $55 million. The grant request is for $45 million with the remainder emanating from revenue generation noted below.

- Starting Year 6, Revenue ($8.4 million) exceeds Operating Expenses ($8.2 million)

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