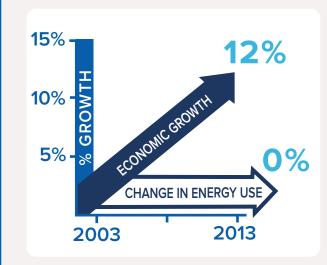
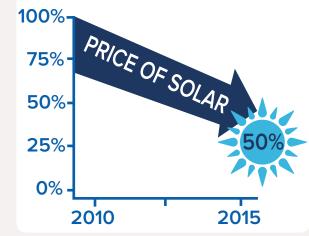
### THE ENERGY LANDSCAPE IS RAPIDLY CHANGING





% ELECTRICITY FROM RENEWABLES





6%

21%

# **MOMENTUM TOWARD CLEAN ENERGY IS ALREADY BUILDING**



#### FROM 1997 to 2012

MINNESOTANS HAVE SAVED OVER 56 TRILLION BTUS OF ELECTRICITY & NATURAL GAS



# **ACTION PLAN STRATEGIES ACCELERATE GROWTH IN 5 AREAS**



TRANSPORTATION
Electric vehicles
and alternativefuel vehicles







ENERGY SUPPLY & GRID MODERNIZATION

Smart meters and smart inverters, storage, updated pricing and programs



EFFICIENT BUILDINGS &
INTEGRATED ENERGY SYSTEMS
Low-energy design,
efficient operations,
thermal energy integration



INDUSTRIAL & AGRICULTURAL PROCESSES

Advanced biofuels, business leadership on energy



LOCAL PLANNING & ACTION Coordinated energy and resilience planning, adopting best practices

# STAKEHOLDERS WHO WILL CONTRIBUTE TO CAPTURING THIS VALUE













1 a. "Real Total Gross Domestic Product for Minnesota," Federal Reserve Bank of St. Louis, 2015, https://research.stlouisfed.org/fred2/series/MNRGSP
1 a. "Primary Energy Consumption Estimates, 1960-2013, Minnesota," U.S. Energy Information Administration, 2015, http://www.eia.gov/state/seds/data.cfm?incfile=/state/seds/sep\_use/total/use\_tot\_MNcb.html&sid=MN

http://www.eia.gov/state/seds/data.cimi?inclie=/state/seds/sep\_use/total/use\_t\_MNcb.html&sid=MN

1b. Galen Barbose and Naïm Darghouth, Tracking the Sun VIII, Lawrence Berkeley National Laboratory, August 2015, https://emp.lbl.gov/sites/all/files/lbnl-188238\_1.pdf

1 c. "21 percent of Minnesota's electricity came from renewables in 2015," Minnesota Department of Commerce, March 3, 2016, http://mn.gov/commerce/media/news/index.jsp?id=17-156648#/list/appld//filterType//filterValue//page//sort//order/

2 a. "Minnesota State Profile and Energy Estimates," U.S. Energy Information Administration, March 17, 2016, http://www.eia.gov/state/?sid=MN#tabs-2

2 b. John Melville, Renae Steichen, and Janine Kaiser, Minnesota Clean Energy Economy Profile, prepared by Collaborative Economics, Inc. for Minnesota National Governors Association, October 2014, http://mn.gov/deed/images/mn\_cleanenergy-economy-profile-fullreport.pdf

2 c. Frank Jossi, "A year after launch, community solar picking up pace in Minnesota," Midwest Energy News, December 11, 2015, http://midwestenergynews.com/2015/12/11/a-year-after-launch-community-solar-picking-up-pace-in-minnesota/









