# Elements of an Investor Pitch

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Energy 203: Stanford Energy Ventures

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# My Background

Venture Capital









Government





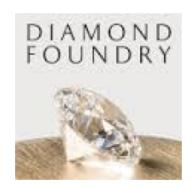
Company Executive and Advisor











# What are investors looking for?

#### The three most important aspects:

• **Market** Big market (\$1B+), growing fast (>10%+ *p.a.*)

On trend – "tailwinds, not headwinds"

Right timing – at inflection point

• **Technology** 10X better, faster, cheaper

"Disruptive", not incremental

IP or other barriers vs. competition

• **Team** Serial entrepreneurs with track record of success

(Often founding team is technologists not entrepreneurs, but ideally

have track record of commercializing)

→ Potential for \$100M revenues by Year 5 (and \$1B valuation possible)

## The Investor Pitch – context

- Tell a story
  - What's the "through line"?
  - One main point per slide
- Know your audience
  - Where are they in their learning curve?

#### For in-person presentations:

- Listen and learn
  - Listen closely to questions
  - Use the opportunity to learn
- Build a relationship
- Grow your network

# The Investor Pitch – context (continued)

Different types of pitch for different stages of investor interest:

First Contact Elevator Pitch (60 secs)

("In a world where...")

Possible Interest Teaser / Executive Summary (1-2 pages)

Overview Presentation (8-12 slides)

Declared Interest Detailed Presentation (~20 slides)

(In person vs. by e-mail)

Due Diligence "Data Room"

## **Investor Presentation Outline**

#### (1) Overview

Company Overview
 Big, exciting – but clearly defined – vision

The Problem Critical market need / pain point

#### (2) Technology

The Solution Technology that's 10X better, faster, cheaper

The Product Clear, compelling customer value proposition

Competition & Differentiation Highly differentiated / unique vs. the competitors

#### (3) Market

Market \$1B+, fast-growing market

Market Traction Demonstrated traction with customers, partners, validators

Go-To-Market Plan
 Clear plan and method of acquiring customers

# Investor Presentation Outline (continued)

#### (4) **Team**

Management Team Experienced entrepreneurs with a track record of success

(Or founding team with solid technology experience)

#### (5) Financials

• Economics 50%+ gross margins

Financial Projections \$100M revenues and cash flow positive by Year 5

Funding Appropriate level of funding for the right uses

Milestones Clear timeline and plan; clear outcomes and risk reduction path

Exit & Returns
 Potential for investor to earn 10-20X returns

# Sample Company



# **Company Overview**



## The Problem

#### Critical market need / pain point?

Cooling and Refrigeration are a Central Part of the Energy & Climate Challenge

of electricity used globally is for air conditioning and refrigeration

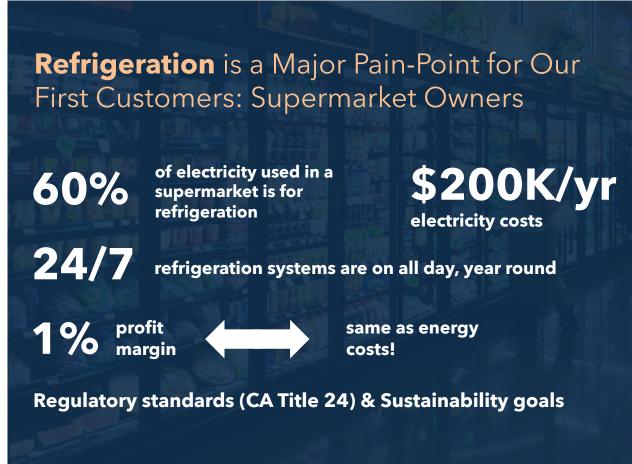
10x

growth in electricity used for cooling by 2050, driven by increased use in developing world



1 Gigaton

of CO<sub>2</sub> emissions emitted annually worldwide due to cooling systems (10% of global CO<sub>2</sub> emissions)

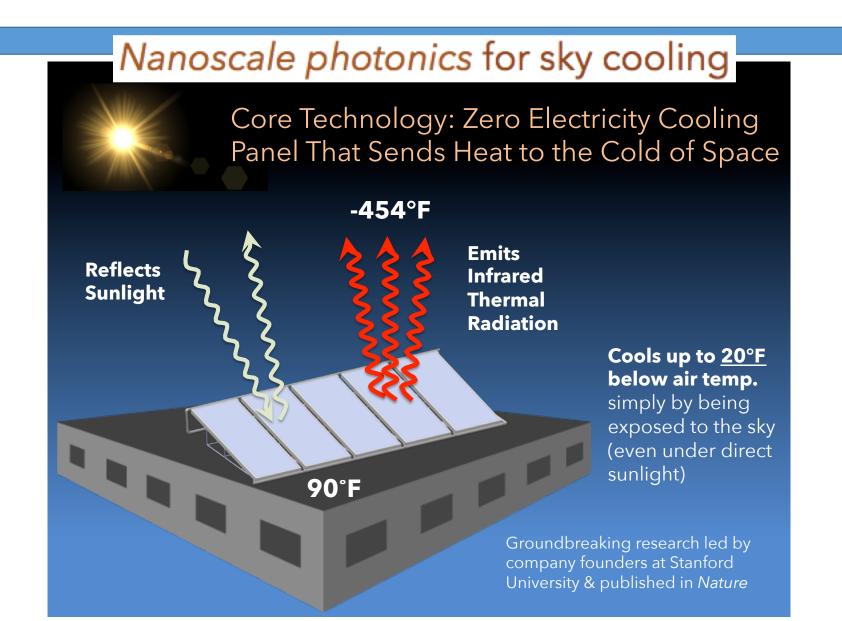


## The Solution

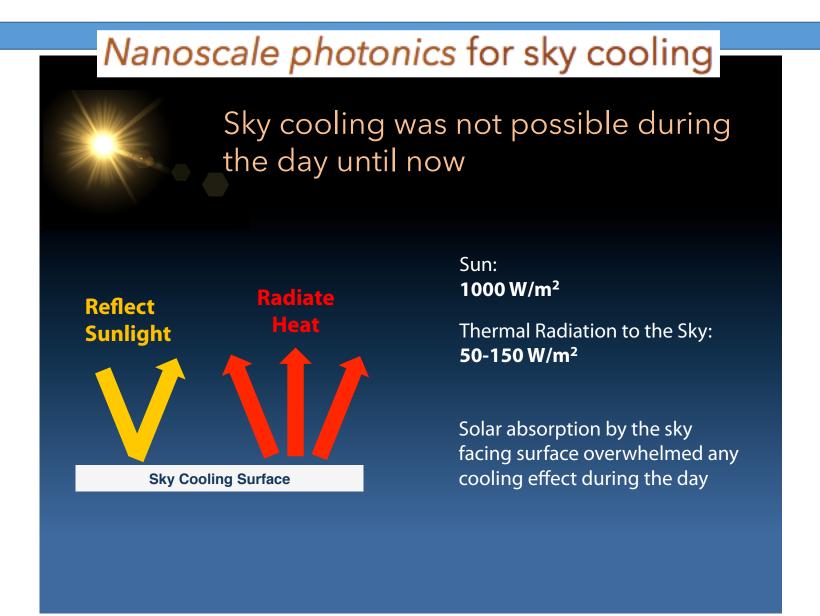
#### Is the technology/solution 10X better, faster, cheaper?

- Technology overview
- Technology development status and plan
- IP FTO and ability to block
- Common Issues:
  - Incremental improvement
  - Too early: "science project" (TRL 0-1)

## The Solution



## The Solution



## The Product

#### Does the product have a clear, compelling customer value proposition?

- "Product-Market Fit"
- Customer Value Proposition
- One focus, with upside opportunities
  - "Platform technology" vs. "one-hit wonder"
  - "Insurance"

#### Common Issues:

- Not clear on specific target customers and value proposition
- Change is required in customer behavior, process, value chain
- Long payback time (> 2 years)

## The Product

## Our Product: Fluid Cooling Panels



Cools fluids such as water up to 20°F below air temperature

Prototypes in testing since 9/2015 at Stanford University

#### **Validated / Peer-Reviewed:**

Nature publication (2014)
ASHRAE publication (2016)
PNNL (DOE) Third-Party Study No. 24904 (2015)

Intellectual property: Two broad composition of matter patents that cover this approach to cooling (negotiating an exclusive license)

# The Product (Value Proposition)

#### SkyCool's Value Proposition for Supermarket Owners

For a median U.S. supermarket, typically **40,000 ft<sup>2</sup>**, our installation will cover **20%** of the roof (8,000 ft<sup>2</sup>) at a net installed cost to the customer of **\$112K**.

**225 MWh** 

**Electricity Saved Annually** 

\$30K

Cost Savings\*

**\$3M** 

Sales equivalent

(Calculations based on hot, dry climate)

Payback	< 4 years
IRR	19%
Lifetime NPV (20 years)	\$240K

\*Excludes utility incentives, 0.13\$/kWh



#### **Panel pricing:**

Our revenue (at 50% gross margin):

\$5.50/ ft<sup>2</sup>

Channel markups & installation costs:

\$8.50/ ft<sup>2</sup>

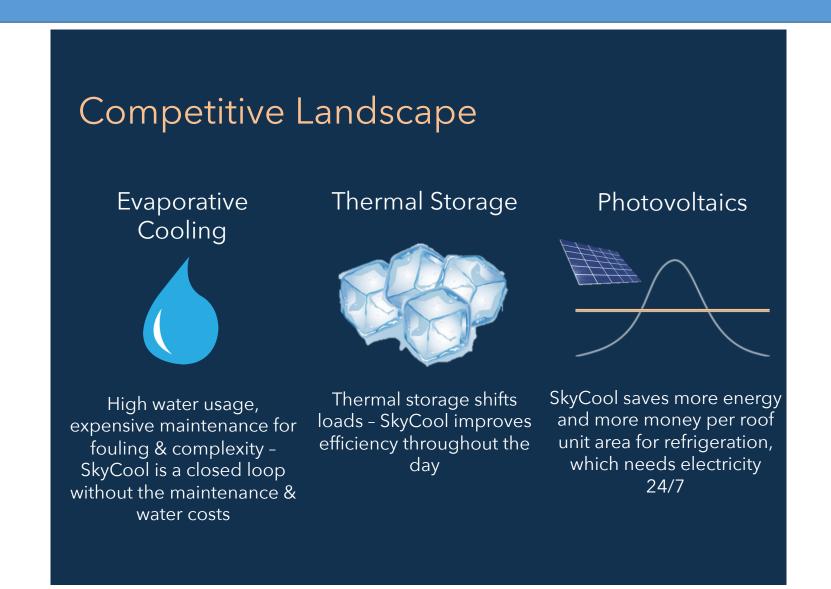
Cost model based on producing 500K ft<sup>2</sup>/year. Developed with the assistance of leading thin film manufacturers, consultants, refrigeration equipment integrators.

# Competition & Differentiation

#### Technology and product are highly differentiated / unique?

- Who are the competitors?
- Why is your tech/offering different, better?
- → Demonstrate a thoughtful understanding of the competition
- Common Issues:
  - "No competitors"
  - Dismissive of competitors
  - "Me too"

# Competition & Differentiation



## Market

#### \$1B+, fast-growing market?

- What's the target market?
- Addressable market size? Growth rates?
- Entry market vs. future market segments?
- → Does this market support a \$1B+ company?

#### Common Issues:

Lack of clarity on target market segments / true addressable market

## Market



## Go-To-Market Plan

#### Clear way to acquire customers?

- Which customers / market segments, in what order?
- Three key factors:
  - How reach customers
  - Customer acquisition cost (CAC)
  - Sales cycle
- Distribution partners, channel partners?
- Business Model? (What are you selling, to whom, and how do you get paid?)
- Common Issues:
  - Direct sales "reinventing the wheel"
  - Long sales cycle (6 months +)

## Go-To-Market Plan

## Business Model: Panel System Sales

To reach our end-customers, we will sell our panels through existing commercial refrigeration system integrator sales channels:









Long-term vision: Finance purchases cost through Energy Savings Performance Contracts (ESPC) to reduce first-costs to customers and grow our market share

## **Market Traction**

#### Already showing progress with customers, partners, and validators?

- Show "market traction"
  - Funding partners (seed investors, government funders)
  - Customers and sales pipeline
  - Technology development partners
  - Other partners: Distribution partners, Channel partners, Strategic partners
  - Competitions and Prizes

#### Common Issues:

No evidence of customer or partner interest

## Market Traction

## **Current Funding & Status**





**\$640K** Award ARPA-E (U.S. DOE)

\$30K Tech Transfer Award 2016

\$5K FLoW Cleantech Business Plan Competition (2<sup>nd</sup> Place)



**Urban Clean Energy Prize 2016** 

\$15K - Member of Fall 2016 Cohort at Accelerator





- Two dominant players in supermarket refrigeration are strongly interested in testing our system. Leading supermarket chains evaluating our performance for potential pilot tests.
- Pursuing pilot opportunities: utility-supported test on a regional supermarket; competing to be in MarketZero - CEC-supported zero net energy supermarket in SF
- Engaged with a leading Bay Area Tech Company to assess utilization in a Data Center Application (secondary beachhead market opportunity)
- Finalist for PRIME Coalition's 2016 funding cycle

#### **Economics**

#### 50%+ gross margins?

- Unit Costs
  - Cost of your product / service based on detailed cost model, supplier quotes?
- ASPs and Gross Margins
  - 50% typical for tech hardware / 85% for software, biotech
- Cost reduction path?
- Common issues:
  - Low margins (e.g., 20%) delay cash flow breakeven and reduce exit multiples
  - Negative gross margins / difficult cost reduction path
  - Dominant tech cost reduction

# Financial Projections

#### \$100M revenues and cash flow positive by Year 5?

- 5-year P&L projections
  - Bottom-up vs Top-down revenue projections (the 1% fallacy)
- Headcount projections
- Timing to cash flow breakeven
- Capital investment needed until cash flow breakeven

# **Funding**

#### Appropriate level of funding, for the right uses?

- Funding history
- Capital needs target amount to raise
- Use of funds / Success milestones
  - Technology development e.g., field beta trials
    - Fastest time to market / MVP / market and customer feedback?
  - Market/Commercial development acquiring customers, partners
  - Team development Key Hires

#### Common Issues:

- Raising too much or too little to get to next set of milestones
- Capital-intensive business model

## Milestones

# Company Plan

2017

- Complete cooling system efficiency improvement demonstrations and prepare for first customer pilots
- Secure first pilot opportunities and solidify customer leads in earlyentry market (commercial refrigeration)
- First sales commitments

2019 2010

- Deploy first pilot demonstrations in target market (supermarket refrigeration)
- Establish sales channel/OEM agreements
- 2018-2019 Hit \$1M in revenue from first 10-20 installations by end of 2019
  - Pilot technology for expansion in broader space cooling market

2020-

- Scale to broader cooling market, grow to \$100M/year
- Secure strategic partnerships with cooling system manufacturers
- Exit opportunities: Partnership or acquisition by major HVAC/ refrigeration manufacturer, or solar manufacturer (as a complementary technology)

## Exit & Returns

#### Potential for investors to earn 10-20X return?

- Exit examples
  - Exit types: IPO? Acquisition? Licensing?
  - Comparable company exit valuations
- Return multiple
  - Exit valuation based on comparables using projected EBITDA in year 5
  - Return Multiple vs capital invested

#### Common Issues:

No M&A or IPO activity in sector

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