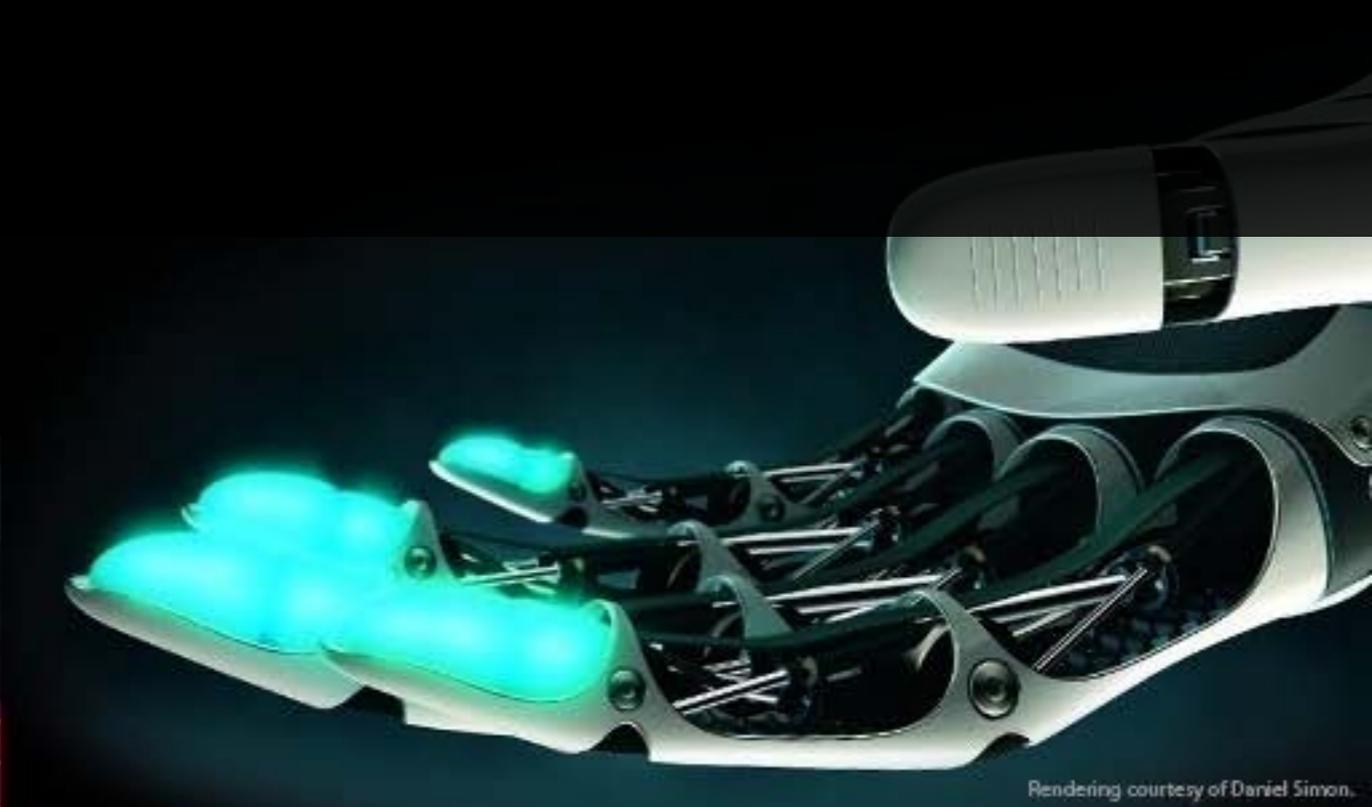




# Autodesk/ASME Sustainability Survey Results



Render image courtesy of Mazenbloek



Rendering courtesy of Daniel Simon.

# Survey Overview

## Method:

E-mail hotlink to online survey

## Sample:

58,200 ASME current members with e-mail addresses on file and primary mailing addresses in the U.S.

## Fieldwork:

**Mailout:** November 20-21, 2008

**Survey Close:** December 3, 2008

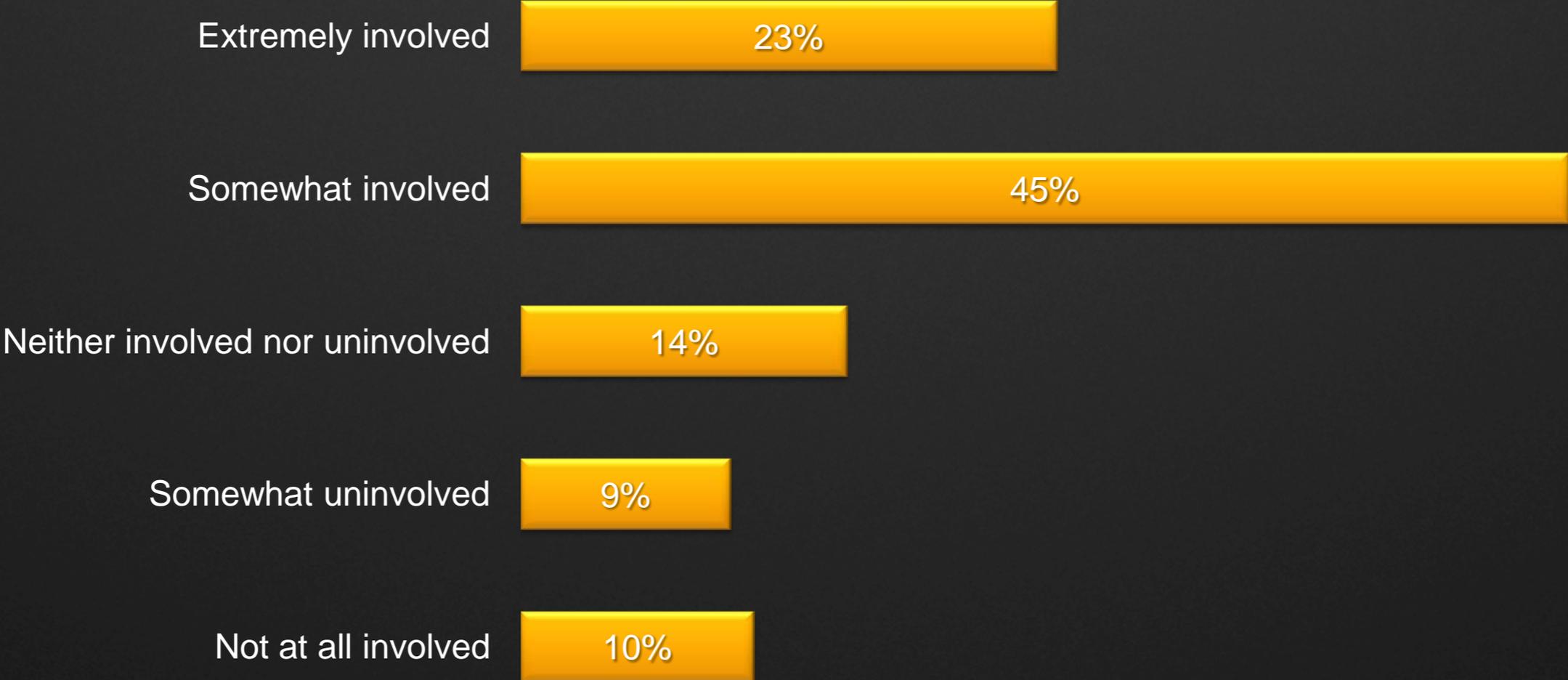
## Response:

50,698 successful deliveries

2,470 respondents

4.9% response rate

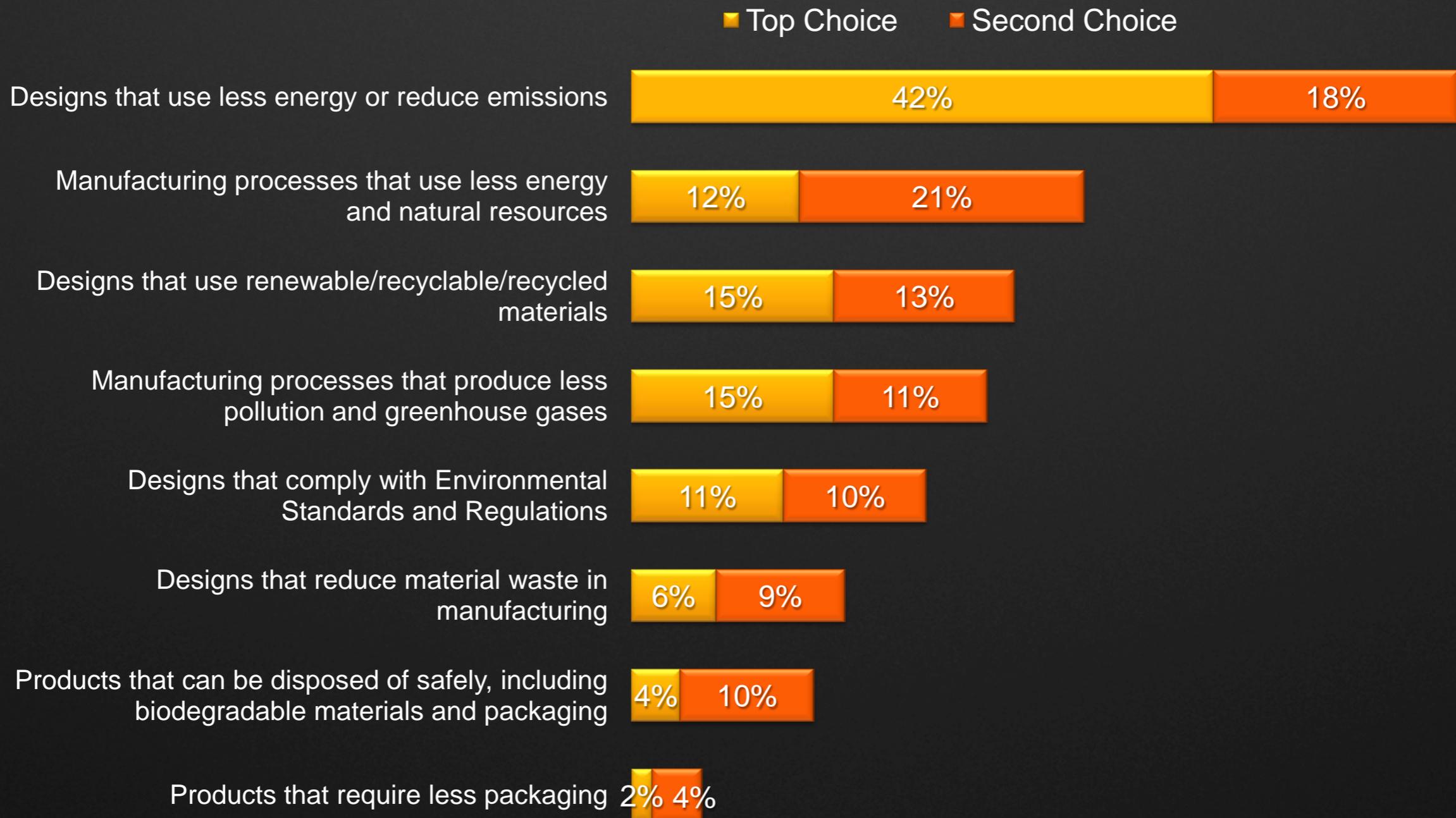
# How involved is your organization with sustainability or sustainable technologies?



# Please check with which of the following sustainable technologies are your organization currently involved? (Check all that apply.)



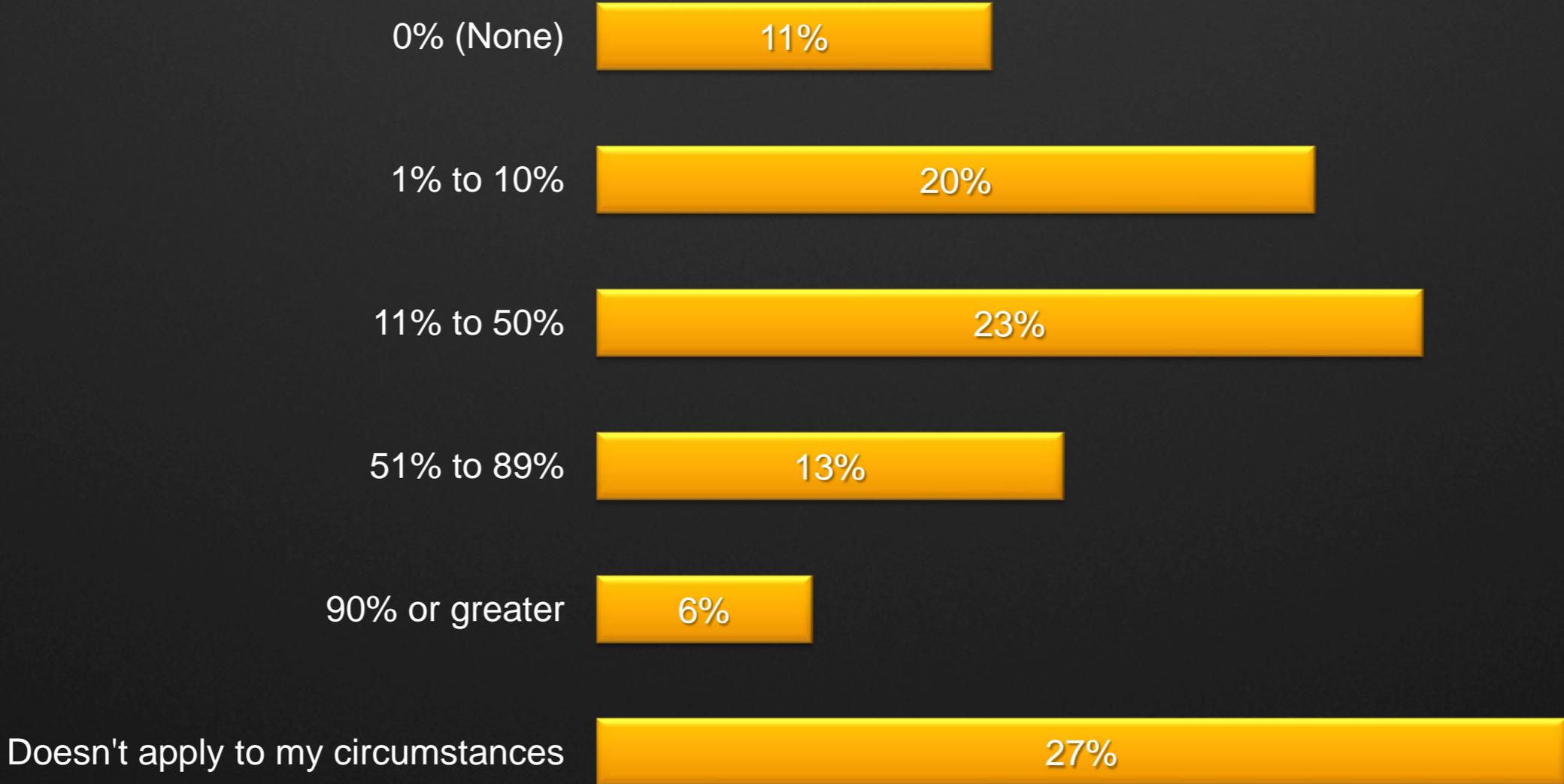
# Which of the following sustainable technologies do you consider to be the two most important?



# Which of the following sustainable technologies have you worked on in the past year? (Check all that apply.)



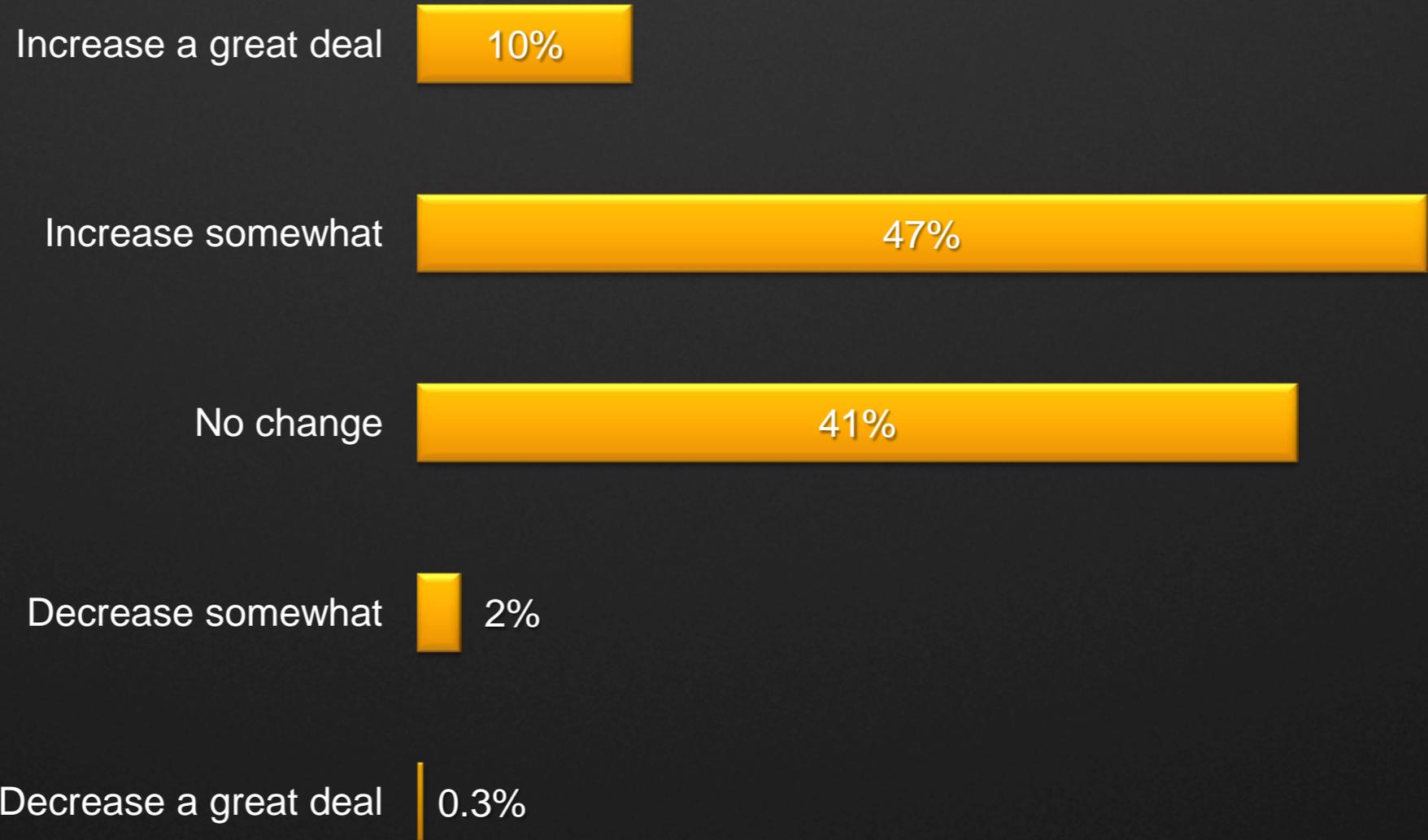
Over the past year, approximately what proportion of all of your projects included specifications that were based on sustainable and/or green design principles beyond those mandated by regulations? Give your best estimate.



# How does your organization balance priorities that may impact the use of sustainable methods? (Check all that apply.)

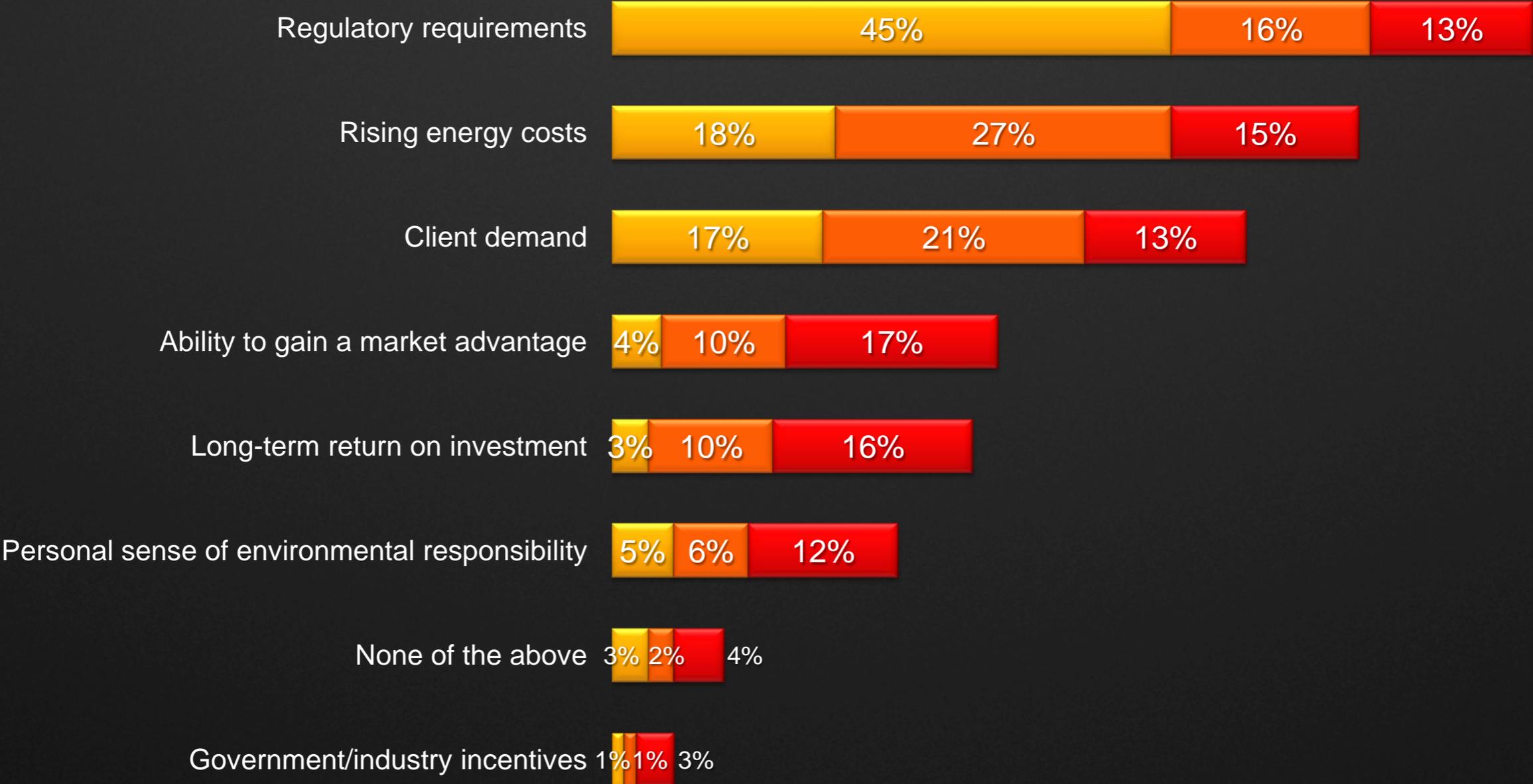


# How do you expect that your organization's involvement in incorporating sustainable and/or green design specifications into its work will change in the coming year?



# Which one is most likely to influence your organization's use of green design practices and procedures, which is second most likely, and which is third most likely?

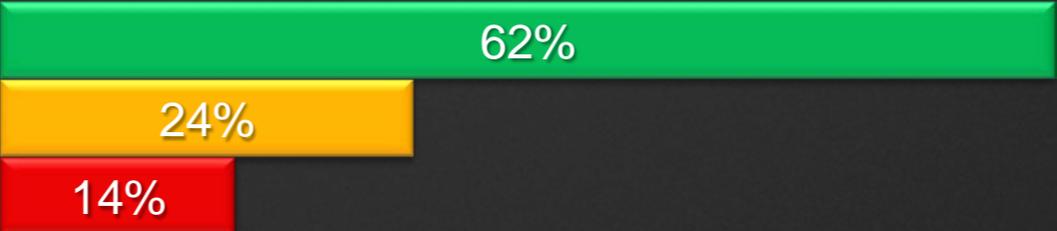
■ Most likely   
 ■ 2nd Most Likely   
 ■ 3rd Most Likely



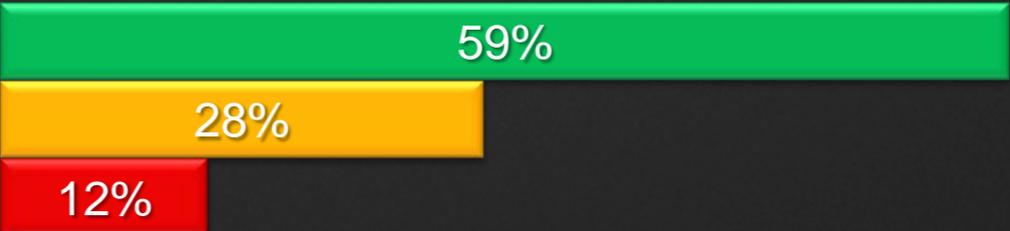
# To what extent do you agree or disagree with each of the following statements about the use of sustainable and/or green design principles in the design, production and operation of manufactured products?

■ Agree   ■ Neither agree nor disagree   ■ Disagree

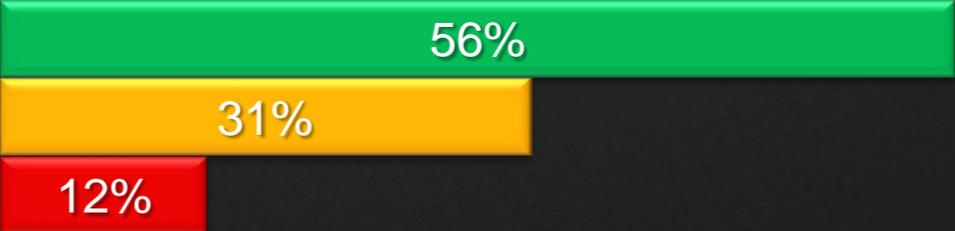
The people I work with are increasingly interested in sustainable and/or green design principles in mechanical systems



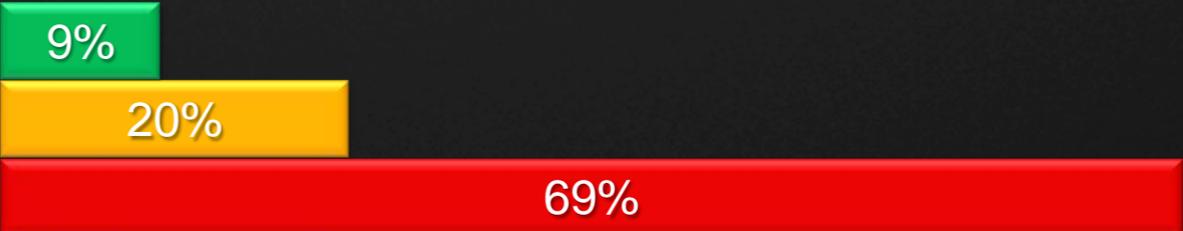
Projects that follow sustainable and/or green design principles typically have higher design costs



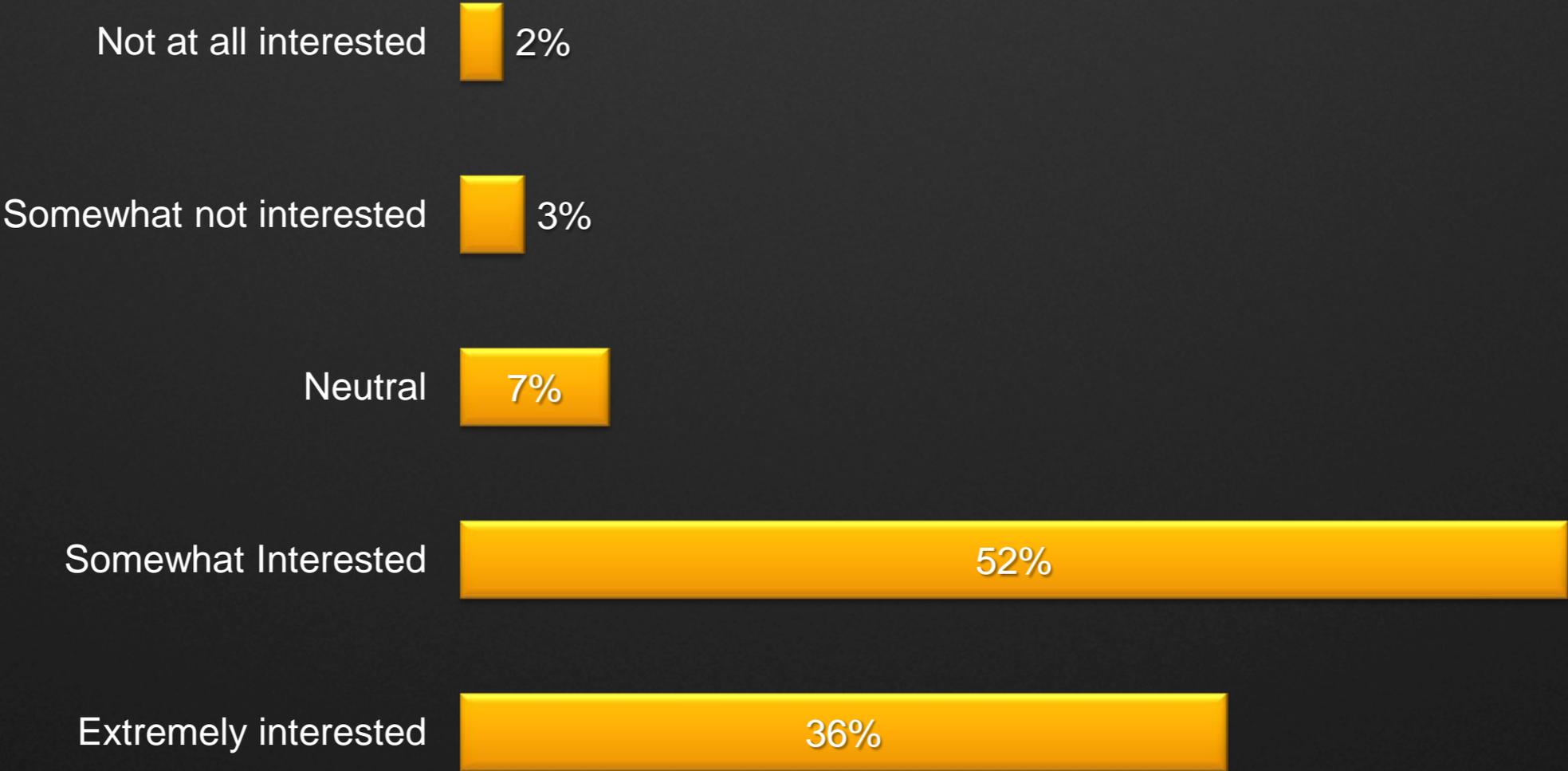
Designing sustainable and/or green products results in more product innovation



Incorporating sustainable and/or green design practices is too complex for my company



# Outside of work, how interested are you personally in green and sustainable information and causes?



# Demographic Information

## I have been employed as an Engineer

<b>Less than 3 years</b>	<b>4%</b>
<b>3 – 6 years</b>	<b>6%</b>
<b>7 – 10 years</b>	<b>7%</b>
<b>11 – 20 years</b>	<b>18%</b>
<b>More than 20 years</b>	<b>61%</b>
<b>Not employed as an engineer (other type of professional)</b>	<b>4%</b>
<b>Not employed as an engineer (student)</b>	<b>0%</b>

(2426 Responses)

# Demographic Information

**Are you a licensed professional engineer?**

<b>Yes</b>	<b>45%</b>
<b>No</b>	<b>55%</b>

(2431 Responses)

# Demographic Information

Which of the following best describes your principle job function?

Design/Development Engineering	27%
Consulting/Professional Services	21%
Engineering Management	15%
Research & Development Engineering	8%
Retired	6%
Production Engineering	6%
Other	5%
Education/teaching	5%
General or Corporate Management	4%
Testing, reliability assurance, quality control	3%
Marketing/Sales	1%
Student	0%

(2431 Responses)

# Demographic Information

Please Indicate the principle business or function of your organization

Energy/Power/Nuclear	18%
Consulting/Design/Professional Services	14%
Manufacturing	12%
Defense/Aerospace	9%
Other	9%
University/College/Education ♦ Petroleum ♦ Government	5%
Bioengineering/Medical/Pharmaceutical	4%
Automotive ♦ Engine/Turbine/Pump/Compressor Machinery ♦ Chemical	3%
Transportation	2%
Computers/Peripherals/Software ♦ Materials/Materials Handling High Tech Industrial Machinery ♦ Water/Sewage/Sanitation Food and beverage ♦ Electronics/Electronics Packing Personal and Household Goods ♦ Association/Non-Profit Telecommunications ♦ Consumer Electronics	1%

(2392 Responses)

Autodesk/ASME Sustainability Survey

# Demographic Information

*Including all locations, approximately how many people are Employed by your organization (both full- and part-time)?*

<b>20,000 or more</b>	<b>24%</b>
<b>10,000 – 19,999</b>	<b>9%</b>
<b>1,000 – 9,999</b>	<b>25%</b>
<b>500 – 999</b>	<b>6%</b>
<b>100 – 499</b>	<b>11%</b>
<b>50 – 99</b>	<b>5%</b>
<b>Less than 50</b>	<b>19%</b>
<b>Don't know/not sure</b>	<b>2%</b>

(2420 Responses)

# Demographic Information

*Which category best describes your age?*

21 – 30	8%
31 – 35	6%
36 – 40	8%
41 – 45	12%
46 – 50	17%
51 – 55	15%
56 – 60	14%
61 – 65	9%
66 – 70	5%
Over 70 years of age	8%

*What is your gender?*

Male	94%
Female	7%

(2420 Responses)

Autodesk/ASME Sustainability Survey

# Demographic Information

## Where to you live?

<b>Northeast U.S.</b>	<b>25%</b>
<b>Midwest U.S.</b>	<b>24%</b>
<b>Southeast U.S.</b>	<b>19%</b>
<b>Southwest U.S.</b>	<b>16%</b>
<b>West Coast U.S.</b>	<b>9%</b>
<b>Northwest U.S.</b>	<b>6%</b>
<b>Outside of U.S.</b>	<b>1%</b>

(2426 Responses)

# Autodesk/ASME Student Sustainability Survey

## Method:

E-mail hotlink to online survey

## Sample:

20,112 ASME current **student** members with e-mail addresses on file and primary mailing addresses in the U.S.

## Fieldwork:

**Mailout:** November 20-21, 2008

**Survey Close:** December 3, 2008

## Response:

18,112 successful deliveries

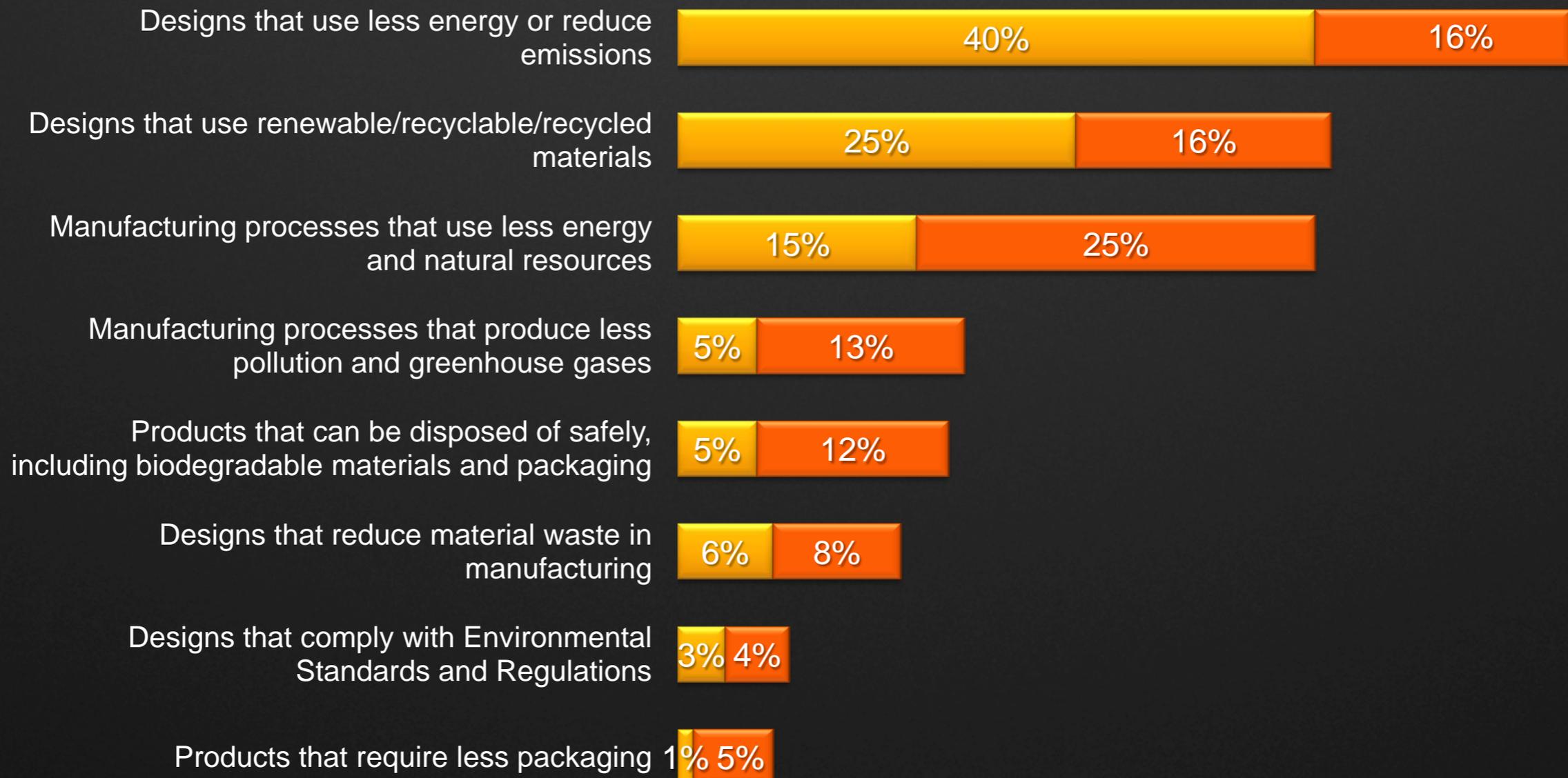
978 respondents

5.4% response rate

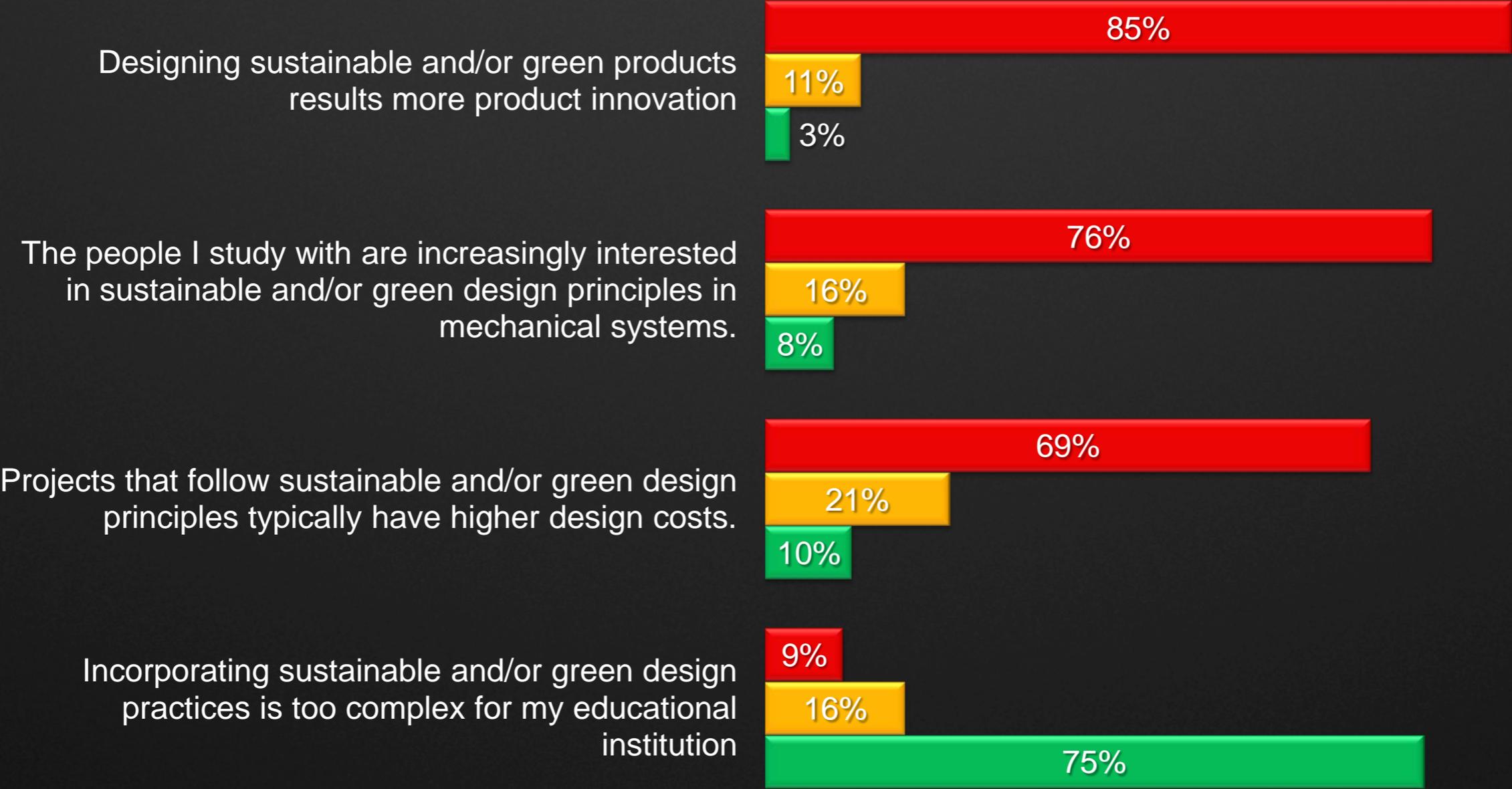
# How involved are you with sustainability or sustainable technologies?



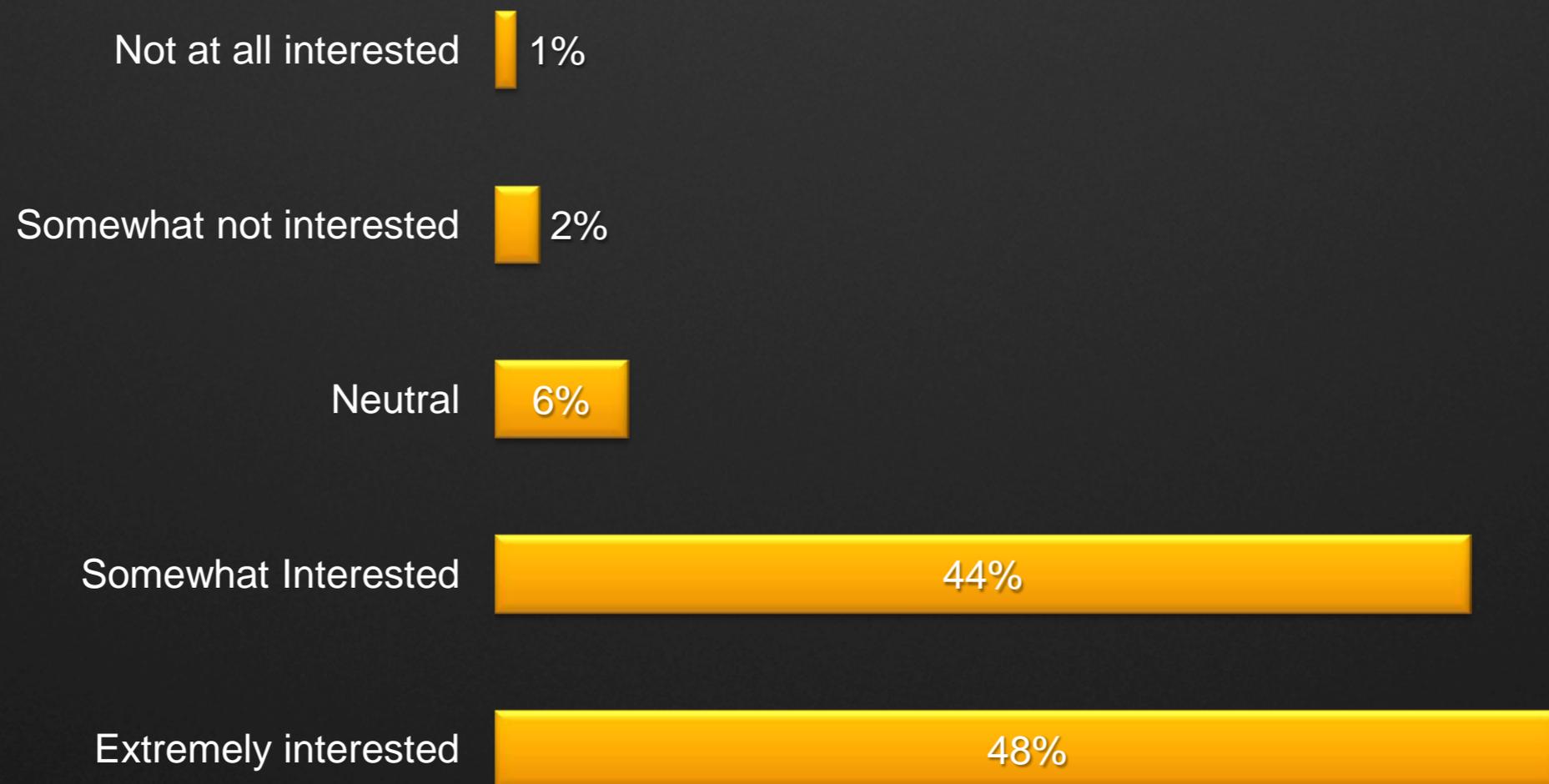
# Which of the following sustainable technologies do you consider to be the two most important?



# To what extent do you agree or disagree with each of the following statements about the use of sustainable and/or green design principles in the design, production and operation of manufactured products?



# Outside of your engineering studies, how interested are you personally in green and sustainable information and causes?



# Student Demographic Information

*Which category best describes your age?*

<b>18 – 20</b>	<b>25%</b>
<b>21 – 35</b>	<b>46%</b>
<b>26 – 30</b>	<b>14%</b>
<b>31 – 35</b>	<b>7%</b>
<b>36 – 40</b>	<b>4%</b>
<b>41 – 45</b>	<b>2%</b>
<b>46 – 50</b>	<b>1%</b>
<b>51 – 55</b>	<b>1%</b>
<b>56 – 60</b>	<b>0%</b>
<b>Over 60 years of age</b>	<b>0%</b>

*What is your gender?*

<b>Male</b>	<b>85%</b>
<b>Female</b>	<b>15%</b>

(975 Responses)

# Student Demographic Information

## Where do you live?

<b>Northeast U.S.</b>	<b>25%</b>
<b>Southeast U.S.</b>	<b>20%</b>
<b>Midwest U.S.</b>	<b>29%</b>
<b>Southwest U.S.</b>	<b>9%</b>
<b>Northwest U.S.</b>	<b>7%</b>
<b>West Coast U.S.</b>	<b>8%</b>
<b>Outside of U.S.</b>	<b>2%</b>

(968 Responses)

# Student Demographic Information

*Including all locations, approximately how many students attend your school?*

<b>20,000 or more</b>	<b>46%</b>
<b>10,000 – 19,999</b>	<b>24%</b>
<b>1,000 – 9,999</b>	<b>23%</b>
<b>500 – 999</b>	<b>1%</b>
<b>100 – 499</b>	<b>0%</b>
<b>50 – 99</b>	<b>0%</b>
<b>Less than 50</b>	<b>0%</b>
<b>Don't know/not sure</b>	<b>2%</b>

(967 Responses)