

# VISUALIZATION TOOL FOR ELECTRIC VEHICLE CHARGE AND RANGE ANALYSIS

## Says

What have we heard them say?  
What can we magine them saying?

## Thinks

What are their wants, needs, hopes,  
and dreams? What other thoughts  
might influence their behavior?

USER

- Which country has the most EVs per capital?
- Which vehicle uses a high voltage battery?
- What is a time of use rate(TOU)?
- What is the range issue with electric vehicles?
- How can you identify a high voltage cable?
- A hydrogen fuel cell vehicle is a type of electric vehicle?

- How often do I need to charge it?
- How long does a battery lost?
- Is it costly?
- Is EV cheaper than petrol
- How long does it take to charge?

- Avoid complete battery drain
- Drive in recuperation mode
- Drive easy and smooth
- Consider moving to solor energy
- Maintain your EV
- Avoid charging in sunlight

- SHOCK: 1.For high electric bill 2.Higher purchase cost
- RELIEF: No noise pollution
- CURIOSITY: Electric vehicles are easy to drive
- SHOCK: Higher purchase cost
- CONVINATE: To charge at home
- SUFFER: 1.Long charging time 2.Low top speeds
- SADNESS: Problems with the power infrastucture

## Does

What behavior have we observed?  
What can we imagine them doing?

## Feels

What are their fears, frustrations, and  
anxieties? What other feelings might  
influence their behavior?