



## Unit 4: Good examples worldwide

### 4.2.1. Smart Cities Marketplace

**Duration:** 20 minutes

**Teaching topic:** Exploring the Dynamics of the Smart Cities Marketplace

- Sub-topic 1 : Introduction to the Smart Cities Marketplace
- Sub-topic 2: Engaging and Collaborating within the Smart Cities Marketplace

**Learning Aims:**

- To gain an understanding of what the Smart Cities Marketplace is and its role in urban development.
- To learn how cities, companies, and individuals can effectively engage and collaborate within the Marketplace

**Methodology:**

- Watching the Introduction Presentation (5 minutes)
- Interactive Video Activity (15 minutes)

#### **Sub-Topic One : Introduction to the Smart Cities Marketplace**

**Duration:** 5 minutes

**Content:** This section introduces the Smart Cities Marketplace, explaining its origins, purpose, and the way it operates. Key points include the Marketplace's role in enhancing urban life through technology, its alignment with European policies like the Green Deal, and the objectives of creating sustainable, smart cities. The presentation will also cover the three-stage process (Explore, Shape, Deal) of the Marketplace.

**Methodology**

- Watching the presentation: (5 minutes) - A presentation covering the basics of the Smart Cities Marketplace.

**Material**

- PowerPoint Presentation: [4.2.1. Smart Cities Marketplace](#) / [Canva](#)
- Internet Connection

#### **Sub-Topic Two: Strategies for Mitigation and Prevention**

**Duration:** 15 minutes

**Content:** The content highlights successful case studies and examples of projects that have benefited from the Marketplace.

**Methodology**

- Continuing Interactive Video Activity: (15 minutes)

**Material**

- Internet Connection



## Video 1: Saving energy in public buildings - and in the district, Example Ostfildern, Germany

<https://www.youtube.com/watch?v=Vgb6SaeWzL0&list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me&index=11>

### Activity 1:

Link to the video:	<a href="https://youtu.be/Vgb6SaeWzL0?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me">https://youtu.be/Vgb6SaeWzL0?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me</a>
Time of video to be paused:	1.24
Option 1: Time of video to go	1.43

Enter Title here: Drag the Words

Enter instructions here: Listen carefully to the sentence in the video. Click on the words that are key elements highlighting the impact of urban design on people's perception. Ensure subtitles are turned on for additional support.

People recognize subconsciously that \*quality\* creates \*respect\* an \*urban structure\* has come into being and I would maintain that a \*very large proportion\* of the people who live here

### Activity 2:

Link to the video:	<a href="https://youtu.be/Vgb6SaeWzL0?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me">https://youtu.be/Vgb6SaeWzL0?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me</a>
Time of video to be paused:	2.01
Option 1: Time of video to go	2.20

Enter Title here: Drag the Words

Enter instructions here: As you watch the video, listen carefully to the description of how the biomass cogeneration plant benefits a specific district. Click on the words in the subtitles that correspond to key components of the energy system described.

this \*biomass cogeneration plant\* supplies via a \*13 kilometer\* \*district heating\* network the \*10 000 inhabitants\* of this district with almost their entire \*heating\* and over half of their \*electricity consumption\*

### Activity 3:



Link to the video:	<a href="https://youtu.be/Vgb6SaeWzL0?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me">https://youtu.be/Vgb6SaeWzL0?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me</a>
Time of video to be paused:	3.28
Option 1: Time of video to go	3.29

Question: What is essential to strengthen according to the speaker?	
• Economic strategies(Incorrect)	
• Technological advancements (Incorrect)	
• Sense of neighborhood (Correct)	
• Government policies (Incorrect)	

Question: According to the speaker, who should be involved in discussions about the future?	
• Only experienced professionals(Incorrect)	
• Young people (Correct)	
• Senior citizens (Incorrect)	
• Politicians only (Incorrect)	

## Video 2: Saving energy by retrofitting. Example Obuda, Budapest, Hungary

<https://youtu.be/AxAvlRR8kb4?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me>

### Activity 1:

Link to the video:	<a href="https://youtu.be/AxAvlRR8kb4?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me">https://youtu.be/AxAvlRR8kb4?list=PLsDPKXDKWeBWicUs8JIYOq1bnjowTM4Me</a>
Time of video to be paused:	0:55
Option 1: Time of video to go	0:56

Question: Why are some types of apartment blocks particularly wasteful when it comes to energy?	
• They are too large and require more heating (Incorrect)	
• The use of concrete leads to thermal bridges and significant energy loss through facades and windows.(Correct)	
• They are often located in colder climates.(Incorrect)	
• Energy wastage is primarily due to the residents' habits rather than the building structure.(Incorrect)	



### Activity 2:

Link to the video:	<a href="https://youtu.be/AxAvlRR8kb4?list=PLsD PKXDKWeBWicUs8JIYOq1bnjowTM4Me">https://youtu.be/AxAvlRR8kb4?list=PLsD PKXDKWeBWicUs8JIYOq1bnjowTM4Me</a>
Time of video to be paused:	1:35
Option 1: Time of video to go	1:36

Question: What was the purpose of giving the house a new coat of paint on the outside?
A. To improve its aesthetic appearance (Incorrect)
B. To protect it from weather damage.(Incorrect)
C. To increase its market value.(Incorrect)
D. Both A and B(Correct)

### Activity 3:

Link to the video:	<a href="https://youtu.be/AxAvlRR8kb4?list=PLsD PKXDKWeBWicUs8JIYOq1bnjowTM4Me">https://youtu.be/AxAvlRR8kb4?list=PLsD PKXDKWeBWicUs8JIYOq1bnjowTM4Me</a>
Time of video to be paused:	2:18
Option 1: Time of video to go	2:19

Question: The installation of new windows alone was responsible for cutting energy consumption by 50%.
<ul style="list-style-type: none"> <li>• True</li> <li>• <b>False</b></li> </ul>

Question: The project included both window replacement and the insulation of roofs and walls.
<ul style="list-style-type: none"> <li>• <b>True</b></li> <li>• False</li> </ul>

### Activity 4:

Link to the video:	<a href="https://youtu.be/AxAvlRR8kb4?list=PLsD PKXDKWeBWicUs8JIYOq1bnjowTM4Me">https://youtu.be/AxAvlRR8kb4?list=PLsD PKXDKWeBWicUs8JIYOq1bnjowTM4Me</a>
Time of video to be paused:	3:37
Option 1: Time of video to go	3:38



Question: What is the direct benefit of turning the heating down?

- Increases carbon emissions (Incorrect)
- Increases energy consumption (Incorrect)
- Reduces energy consumption (Correct)
- Increases costs (Incorrect)

Question: Both the environment and the residents benefit from lower energy consumption.

- True
- False

## Video 2: Urban Insights - Cooperation as a Driver of Change in Cities

<https://www.youtube.com/watch?v=ohXsdhVljxs>

### Activity 1:

Link to the video:	<a href="https://www.youtube.com/watch?v=ohXsdhVljxs">https://www.youtube.com/watch?v=ohXsdhVljxs</a>
Time of video to be paused:	0:21
Option 1: Time of video to go	0:22

Question: 1. What is the primary reason for setting up an energy community?

- To decrease the use of renewable energy (Incorrect)
- To increase the uptake of renewable energy production by citizens and enterprises.(Correct)
- To reduce social interaction within the community. (Incorrect)
- To solely improve the financial status of energy companies. (Incorrect)

Question: 2. What role do energy communities play in the future energy system?

- They contribute to the imbalance of supply and demand (Incorrect)



- They have no significant role in future energy systems. (Incorrect)
- They increase the dependency on non-renewable energy sources. (Incorrect)
- They help in balancing supply and demand, especially in electricity (Correct)

Link to the video:	<a href="https://www.youtube.com/watch?v=ohXsdhVljxs">https://www.youtube.com/watch?v=ohXsdhVljxs</a>
Time of video to be paused:	1:41
Option 1: Time of video to go	1:42

Question 3: Every municipality has the capacity and social network ready for an energy cooperative.
<ul style="list-style-type: none"><li>• True</li></ul>
<ul style="list-style-type: none"><li>• False</li></ul>