

# SOLAR STORAGE

next generation

07 - 09  
NOV  
2024

TÜYAP  
FAIR AND  
CONGRESS  
CENTER  
Istanbul, TÜRKİYE

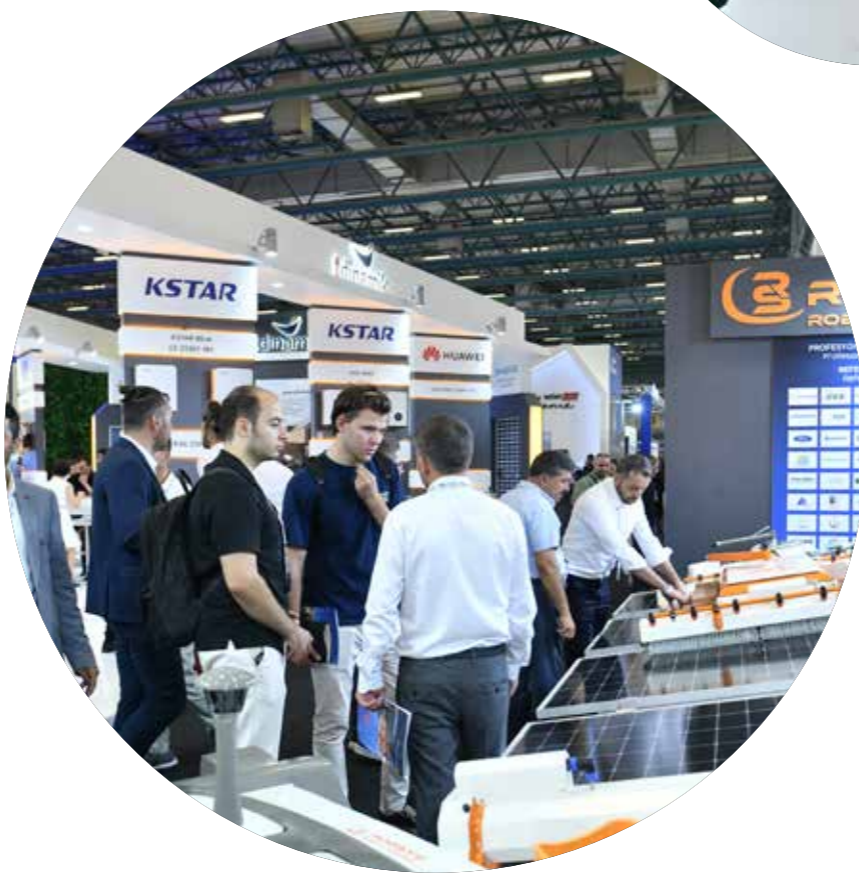
[www.solarstoragenx.com](http://www.solarstoragenx.com)

# Attraction Centre of the Solar Energy and Energy Storage Industry: Solar+Storage NX

**7 - 9 November, 2024**  
Tüyap Fair and Congress Center

**Solar+Storage NX** returns for its second year, as the meeting point of international energy investors, from **November 7 to 9, 2024**. This event aims to contribute to the development of solar energy and energy storage solutions and technologies, and to be an intermediary for our nation to shoulder its responsibility in combating climate change and reducing its carbon footprint. The fair, which steers the sector, brings together investors and project developers, consumers and suppliers, government decision-makers and the energy sector in the same network, offering opportunities that create long-term permanent collaborations and commercial agreements.

**Solar+Storage NX** will be held at **Tüyap Fair and Congress Center, Istanbul** between the dates of **November 7 - 9, 2024**. The fair, which will showcase the most innovative products and technologies of the leading companies of the energy sector, will benefit the future of the Turkish energy sector by offering innovative perspectives on future business models and ever-changing investor and need profiles in renewable energy.



# Numbers with Solar+Storage NX 2023



# Visiting Countries



Energy Expo  
Dünyanın Ö  
A Global Lead  
A Leading Glo

# Solar+Storage NX 2024 Product Groups

## SOLAR ENERGY TECHNOLOGIES

- **Solar Cells and Panels**
  - Solar Cells
  - Crystalline PV Modules
  - Thin Film Solar Panels
- **Production Balancing Systems**
  - Inverters
  - PV Monitoring, Measurement and Control Technologies
  - Building Integrated PV Systems (BIPV)
  - Independent Systems, Off-Grid Systems
  - Mini Solar Energy Devices
  - ICT, PV Software
- **PV Components (Cables, Connectors, Junction Boxes etc.)**
- **Mounting Systems, Auxiliary Installation Elements**
- **Tracking Systems**
- **Production Technologies**
  - Automation Technology
  - Monitoring and Measurement Technology
  - Materials and Components
  - For Ingot, Wafer, Raw Material Polysilicon, UMG, etc.
  - Production Equipment
  - Production Equipment for Solar Cells, Panels, Thin Films
- **Thermal Solar Energy Technologies**
  - Thermal Solar Collectors
  - Thermosyphonic Systems
  - Air Conditioning and Cooling
  - Thermal Mounting Accessories
- **Solar Power Plants**
  - PV Systems for residential buildings
  - Roof Mounted PV Systems for Commercial and Industrial Applications
  - PV Systems for Lands
  - PV Systems for Agriculture

## ENGINEERING, PROCUREMENT AND CONSTRUCTION (EPC) PROJECTS

- Project Developers / EPC Contractors
- Engineering and Design
- Consultancy
- Distributors

## ENERGY STORAGE SYSTEMS AND TECHNOLOGIES

- **Energy Storage Product Technologies**
  - Lithium Based Batteries
  - Lead Based Batteries
  - Redox Flow Batteries
  - Other Battery Technologies
  - Recycling / Second Use

- Fuel Cells
- Capacitors (Ultra)
- Power to Gas (Hydrogen, Electrolysis, Methanisation, Infrastructure, etc.)
- Other Energy Storage Technologies
- **Energy Storage System Components and Equipment**
  - Battery Management Systems
  - Power Electronics for Storage Systems
  - Battery Testing, Inspection Systems, Safety
  - Cooling / Temperature Management
  - Battery Chargers
- **Battery Production Technologies / Machinery and Plant Construction**
  - Materials
  - Battery Cell Production
  - Battery Module Production and System Installation / Mounting
  - Integration / Automation Technology
- **Energy Storage Systems**
  - Fixed Applications for Residential Buildings
  - Fixed Commercial and Industrial Applications
  - Fixed Applications for Utilities and Network Operators
  - Low Capacity Mobile Applications (Smartphones, Laptops, Tablets, etc.)
  - Uninterruptible Power Supply Systems (UPS)
  - EPC Contracting / Project Development for Energy Storage Systems
  - ICT, Software for Energy Storage Systems

## DIGITALISATION

- Asset Visibility: Performance, Conditioning, Remote Monitoring
- Digitalising Processes and Innovating on Legacy Systems
- Emerging Technologies: AI, IoT, Robotics, Drones, Blockchain Applications
- Infrastructure: SCADA, Cloud, Hybrid Architecture, Managed Services
- Cyber Security, Information Management, GDPR
- Data Collection Systems

## SMART ENERGY SOLUTIONS

- Grid Infrastructure and Solutions for the Integration of Renewable Energies
- Smart Grid Solutions
- Transformers, Substations, Secondary Substations
- Power Distribution (Low & Medium Voltage Networks)
- Building Automation (Smart Home / Building)
- Software Programmes for Building Design and Facility Management

## E-MOBILITY

- Electric Vehicles
- Electric Vehicle Battery Solutions and

## Management Systems

- Materials and Components for Electric Vehicles
- Charging Infrastructure and Equipment (Chargers, Cables, Connectors, Accessories, Materials, etc.)
- Charging Stations, Design, Construction and Operation Services
- Batteries and Battery Management Systems
- Payment Systems, ICT, Software Applications
- Mobility Services
- Security Systems
- Other Groups

## OTHERS

- Research and Development Institutes
- Certification Institutions
- Legal Consultancy Services
- Training and Further Education, Training Courses
- Associations / Societies
- Finance / Insurance Services
- Commercial Media, Publishing
- Inspection Maintenance Organisations
- Decarbonisation Measurement Systems
- Occupational Health and Safety Services





# Why Should You Attend Solar+Storage NX?

**Solar+Storage NX** will bring together the leading companies of the solar energy sector and new players of the market with a large number of industry professionals from Europe, Asia, Africa and the Middle East. The fair, where bilateral business meetings will be held, will enable all sector stakeholders to expand their trade networks and take part in the struggle against the climate change in order to increase the use, investments and opportunities of solar energy in addition to providing a business-oriented meeting platform.

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**Ensure Visibility for Your Brand in National and International Markets**
- 

**Reach Tens of Thousands of Buyers**
- 

**Showcase Your New Products and Innovative Technologies**
- 

**Keep a Close Eye on Your Competitors**
- 

**Listen to Sector Leader Speakers**
- 

**Build Connections with New Business Partners**

# EXHIBITOR PROFILE

- 

Public Institutions
- 

Engineering and Consultancy Firms in the Energy Sector
- 

Solar Panel Manufacturers
- 

Mounting System Manufacturers
- 

Inverter Manufacturers
- 

Energy Storage Companies
- 

Battery Manufacturers
- 

Manufacturers of Electric Vehicle Charging Stations and EV Accessories
- 

Automation Companies
- 

Wholesalers and Distributors
- 

Consultancy Firms
- 

Law Firms
- 

Component Suppliers
- 

ICPs
- 

Energy Management Solution Providers
- 

Collectors
- 

Energy Trading Companies
- 








Telecommunications
- 

Transformer and Switchgear Manufacturers
- 

Maintenance and Repair Companies
- 

Academic Institutions

# Why Should You Visit Solar+Storage NX?

-  **Establish New Collaborations**
-  **Learn About The Latest Technologies**
-  **Meet Manufacturers and Suppliers**
-  **Expand Your Trade Volume**
-  **Connect with Global and Local Sector Professionals**
-  **Receive Information on New Products and Services**
-  **Listen to Sector Leader Speakers**



# VISITOR PROFILE

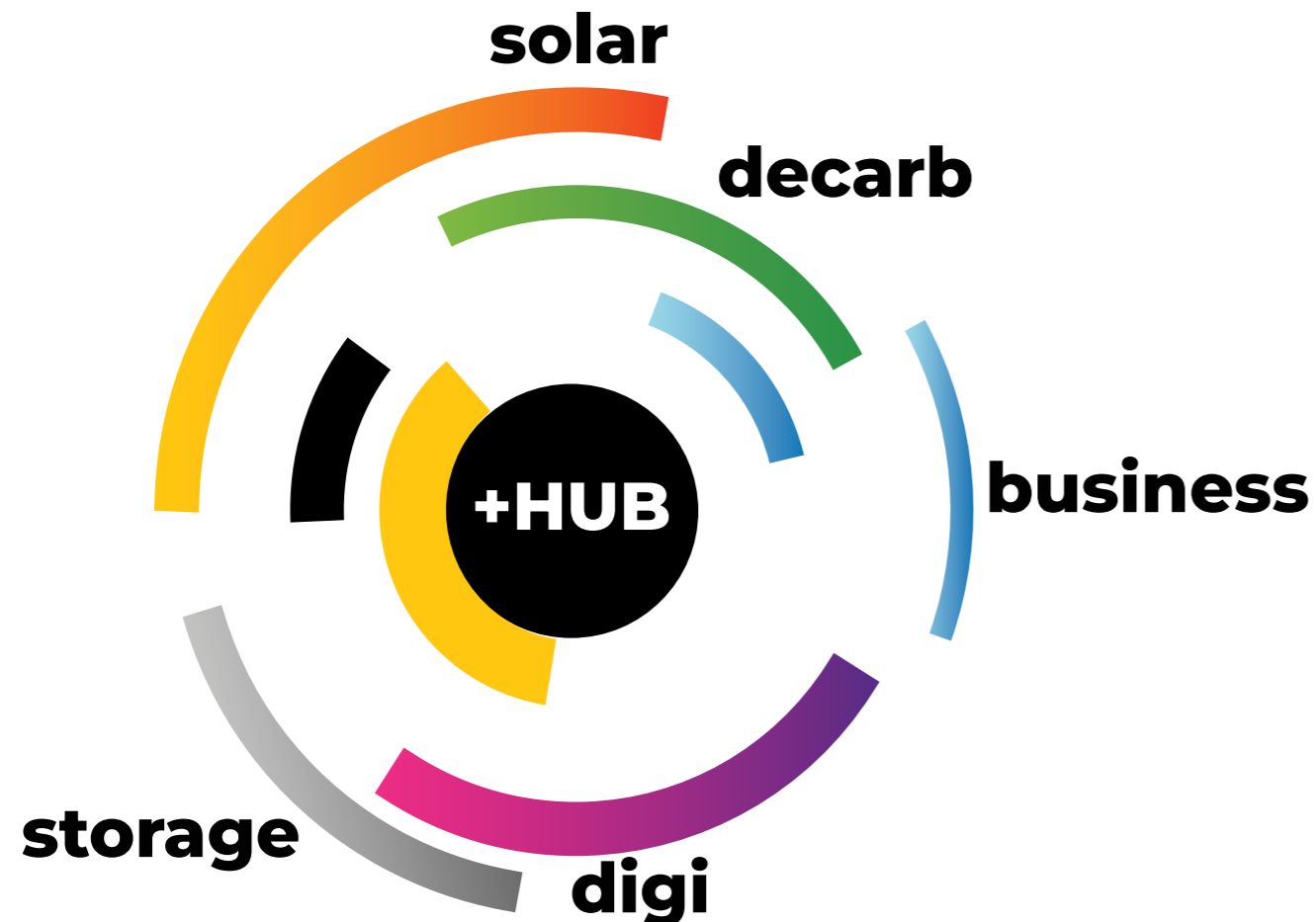
-  **Public Service Institutions and Municipalities**
-  **Solar Energy Investors**
-  **Energy Storage Investors**
-  **Financial Institutions**
-  **Licensed/Unlicensed Electricity Producers**
-  **Industrial Factory Managers**
  - Textile Factories
  - Construction Sector
  - Automotive Industry Factories
  - Cement Factories
  - Paint Factories
  - Iron and Steel Factories
  - Non-Metal Mineral (Sand, Gravel, Clay, Marble) Factories
  - Ceramic Factories
  - Food and Beverage Factories
  - Paper and Wood Factories
  - Agriculture / Animal Husbandry Factories
-  **Hotels, Residences, Hospitals, Schools, Office and Business Owners**
-  **Decision Makers in the Transportation Sector**
-  **Organised Industrial Zones**
-  **Manufacturers in the Agriculture and Animal Husbandry Sector**
-  **Construction and Architecture Companies**
-  **Energy and Consultancy Companies**
-  **Commercial Attaché Offices and Embassies**
-  **Project Developers**
-  **Distributors**
-  **Engineers and Technical Consultants**
-  **Associations, Unions and Foundations**
-  **Chambers of Commerce**
-  **Universities and Academics**
-  **Media Organisations**

# Solutions for the climate crisis will be discussed at this fair!

## **Solar Energy + Energy Storage Technologies Pave the Way for a Sustainable Future.**

In the international technical and strategic conferences to be organised in parallel with the fair, experts from Turkey and the world on more than 30 topics will share their knowledge on current issues and technological developments with the audience. At the Solar+Storage NX Conferences, which will transform into a C-level information and networking platform, the importance of solar energy and storage technologies in the global struggle against climate change will be discussed in full detail, while developments and opportunities in other clean and renewable energy sources that will provide solutions to the rapid increase in energy demand will also be discussed. In addition, it will also create the necessary infrastructure for the preparation of a more reliable emission inventory and the development of climate change policies with the co-operation of all stakeholders.

The technical conference topics, which are determined under five main headings: **solar+HUB**, **storage+HUB**, **decarb+HUB**, **business+HUB** and **digi+HUB**, will encourage the use of solar energy and storage and will ensure that promotional activities are brought to the agenda.



## **solar +HUB**

In this session, where we will put the solar energy sector in Turkey on the agenda, which continues to develop with the goal of 2050, the current situation of solar energy in Turkey, which is a clean and economical energy source, technological developments, the importance of floating solar power plants in energy transformation, understanding the versatility of combining solar energy with the agricultural sector and the importance of energy independence will be discussed.

### CONFERENCE TOPICS

- New Technologies and Recent Developments in PV Cells and Modules
- Domestic Manufacturing in PV Panel Production
- Cell Manufacturing and Investments in Turkey
- Industrial Roof SPP and Land SPP Applications and Faulty Examples
- Agriculture SPP: Is it possible to generate energy while growing plants?
- Floating SPPs: Examples for Turkey
- Network Stability, Distributed Energy Requirement and Solar
- The Future of Green Hydrogen
- Hybrid Power Plants and Their Place in Energy Transformation



## storage +HUB

The increasing use of renewable energy and the expansion of energy storage integration capacities and electrification, and especially the greening initiatives of industry and transportation sectors are rapidly increasing the global demand for batteries. With these developments, the importance of storage in the carbon neutrality target, the past, present and future of developing battery technologies, energy storage project opportunities in Turkey, application areas of electricity storage, ancillary services, load shifting, load limitation and the need for information sharing on these issues come to the fore. These sessions, which will be held under the title of Storage+HUB, will also pave the way for the dissemination of developing storage and battery technologies.

### CONFERENCE TOPICS

- Energy Storage Markets and Experiences Abroad
- Market Modelling and Market Entry Concepts of Energy Storage Systems
- With Growing Interest in Longer Term Storage Options, How Should Policies and Regulations Be Enacted to Provide Greater Stability for Developers and Investors?
- Business Models for the Operation of Storage Systems
- Is There a Need for Incentives in the Storage Market?
- Advantages and Risks of Storage
- Recommendations for Those Wishing to Invest in Storage
- Risks Awaiting the Battery Supply Chain with the Rapid Increase in Demand for Batteries
- Battery Storage Systems to Meet Critical Network Services and Applications  
Is it Possible to Optimise, Manage Risks and Generate Higher Returns?
- Application Areas of Electricity Storage, Ancillary Services, Load Shifting and Load Limiting
- How Can It Be Ensured that ESS (Energy Storage Systems) Projects Provide Expected Returns?
- Environmental, Social and Legal Integration of Storage
- Integration of EV, Solar, Storage and Smart Mobility
- Recent Developments in Battery Technologies



## decarb +HUB

In the sessions that will be carried out to mirror the growing need for decarbonisation strategies in the energy sector, the leaders of the energy ecosystem will talk about the goals of reaching net zero by the year 2050 and the strategic steps to be taken in this direction, the opportunities and challenges in the energy markets in the decarbonisation race, and the long-term decarbonisation strategies in Turkey.

### CONFERENCE TOPICS

- Climate Scenarios and Studies Conducted in Turkey
- Carbon Neutral Turkey @ 2053 (Carbon Border, Green Deal)
- Carbon Trade
- The Role of Solar Energy in Decarbonisation Strategies and Trends
- Resources for Climate Financing





## business +HUB

The sessions, which will bring together stakeholder groups that constitute the parties of energy transformation investments and financing such as policy makers, international and national financial institutions, energy sector players, technology suppliers, consulting companies, will bring the financing and future of the energy sector to the agenda. Topics such as new financing instruments brought by the energy transition for the needed green projects and emerging investor profile, energy transition perspective and strengthening the market mechanism, and renewable energy financing models will be discussed by financial solution providers possessing profound expertise.

### CONFERENCE TOPICS

- Changing Financing Models and Project Investments
- Pre and Post Project 3rd Party Inspection Services for Sustainable SPPs
- Solar + Storage Financing
- New Business Models in Solar (PPA)
- Utility Scale Solar Energy: Past, Present and Future of Renewable Energy Source Areas
- Keeping a Close Track of Legislative Issues up to the Environmental, Social and Sustainability Requirements
- Unconditional Offsetting and its Implications
- The Past, Present and Future of Renewable Energy Source Areas
- A Closer Look at Energy Legislation



## digi +HUB

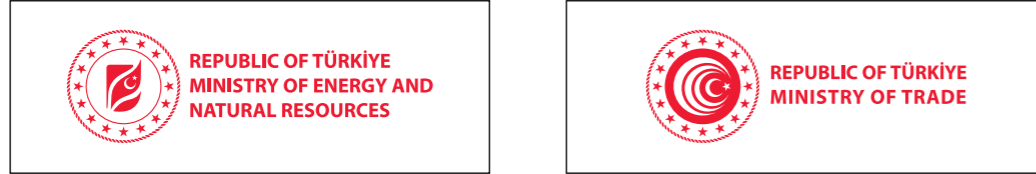
This session on digital transformation in the energy sector will focus on the problems experienced by Turkey in the digital transformation process, solution suggestions regarding the lack of infrastructure, data security and cyber security measures accompanying the widespread use of cloud technology, remote monitoring and management of power plants, IoT and the future of 5G.

### CONFERENCE TOPICS

- Digital Transformation: Digitalisation Journey of the World of Renewable Energy
- Digitalisation in Storage (EMS- BMS)
- Digitalisation in Solar
- Artificial Intelligence and Energy Storage
- How Does Total Control - Big Data Improve Operation and Maintenance and Asset Management?
- Operation and Maintenance - Whole Life Asset Management
- Digital Solutions, Controls, New Techniques



## SUPPORTERS



## IN COOPERATION WITH



## CONTACT US

### TO EXHIBIT

#### DORUK GÖZEN

Sales Director  
doruk.gozen@solishub.net  
+90 543 765 47 18

### TO VISIT

#### DUYGU ÖZENÇ

Marketing Director  
duygu.ozenc@solishub.net  
+90 543 765 47 16

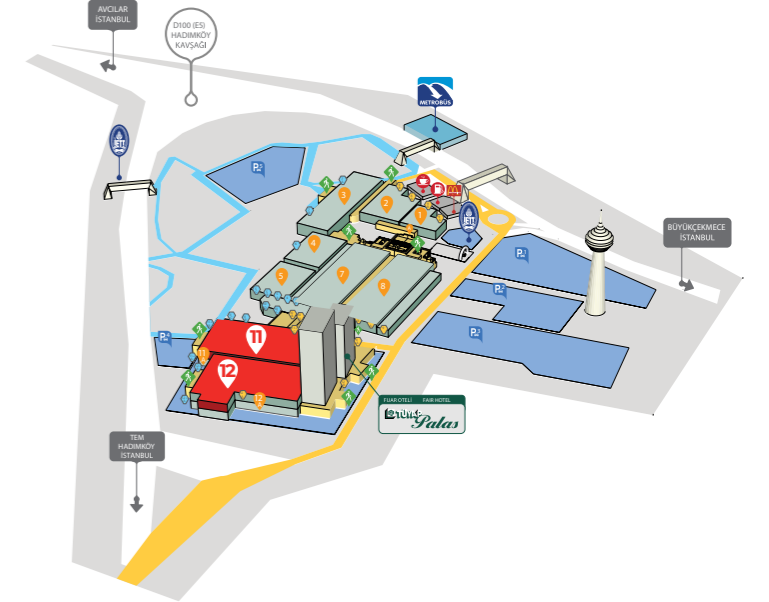
#### EZGİ VURAL

Marketing Executive  
ezgi.vural@solishub.net  
+90 543 765 47 25

**Solis Fair and Consultancy Services Inc.**  
Workinton Buyaka, Fatih Sultan Mehmet Mah. Poligon Cad.  
Buyaka 2 Sitesi - Kule 3 Daire 1-2-3-4 Ümraniye - İstanbul

# Solar+Storage NX 2024 Floor Plan

**Solar + Storage NX** takes place at the TUYAP Fair and Congress Centre - the largest, best equipped, best located and more convenient exhibition centre in Turkey. TUYAP remains popular with visitors, exhibitors and speakers thanks to its easy location, giant facilities and all-round ease of use as a place to meet and do business.



## Transportation Options to The Fairground



### BY CAR

Continue through the TEM expressway Mahmut Bey Toll station and take the "Bahçeşehir-Avcılar Exit". Then continue in Avcılar direction, after 2 km you will reach E-5 intersection. Follow Büyükçekmece signs for 3 km to Tüyap Fair Convention and Congress Center.



### BY PLANE

Tüyap Fair Convention and Congress Center is located around 40km west of Istanbul Airport, the city's main international air hub. A taxi ride from the airport can take up to an hour. If you are travelling from Sabiha Gokcen Airport, Istanbul's other international airport, a 90km taxi ride will take at least 2 hours.



### BY BUS

The Söğütlüçeşme – Beylikdüzü Metrobus line stops outside the exhibition centre.



### BY MARMARAY

If you are using Marmaray Line; change to M1A Yenikapı- Atatürk Airport Metro Line and get off at Şirinevler Station to connect to Metrobus Line

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