

# 3M Innovative Graphics for EV Charging Stations

Visual renders collection

# 3M graphic solutions benefits for EV charging stations



## Functionality

Using films on EV chargers surfaces to prevent scratches and graffiti<sup>13</sup> or using sun control films<sup>6</sup> on glass displays to help reduce overheating can extend life of the EV charging units.

## Aesthetics

Wrapping the EV chargers will help enhance and protect the aesthetics and the brand visibility of the Charging Point Operators.

## Identification

Making EV charging stations more easily identifiable day and night, using a full set of 3M solutions varying from illuminated<sup>9</sup> and road safety vertical<sup>8</sup> signage, reflective films, DI-NOC™ exterior, wall displays, floor and pavement markings and Safety-Walk™ strips for outdoor parking spaces and driveways.

## Sustainability

Using non-PVC graphic films can help deliver excellent brand identity. Films help to reduce energy use and material waste: Sun control<sup>6</sup>, reflective<sup>8</sup>, and illuminated signage films<sup>10</sup> contribute to improve energy efficiency, while DI-NOC™ and FASARA™<sup>17</sup> refresh EV charging stations convenience store surfaces without replacement, minimising landfill waste and contributing to LEED Credits<sup>15</sup>.

## 1st Case

Destination charge scenario



Aura  
HOTEL & SPA

Aura

Recharge with Aura.  
Leading to green travels.



RECHARGING CAR  
TIME TO  
Recharge  
YOURSELF

The Recharger Lounge

Feel the Aura,  
Embrace the Comfort

Aura

## Charger wrapping

Application	3M solution*	#
EV chargers' surfaces branding and personalization	Antigraffiti – 8993 <sup>⑬</sup>	1
	Sun control films – Prestige 70 <sup>⑯</sup>	2
	Print wrap film – 480 Non-PVC <sup>⑰</sup>	3
	Reflective films – 580	4

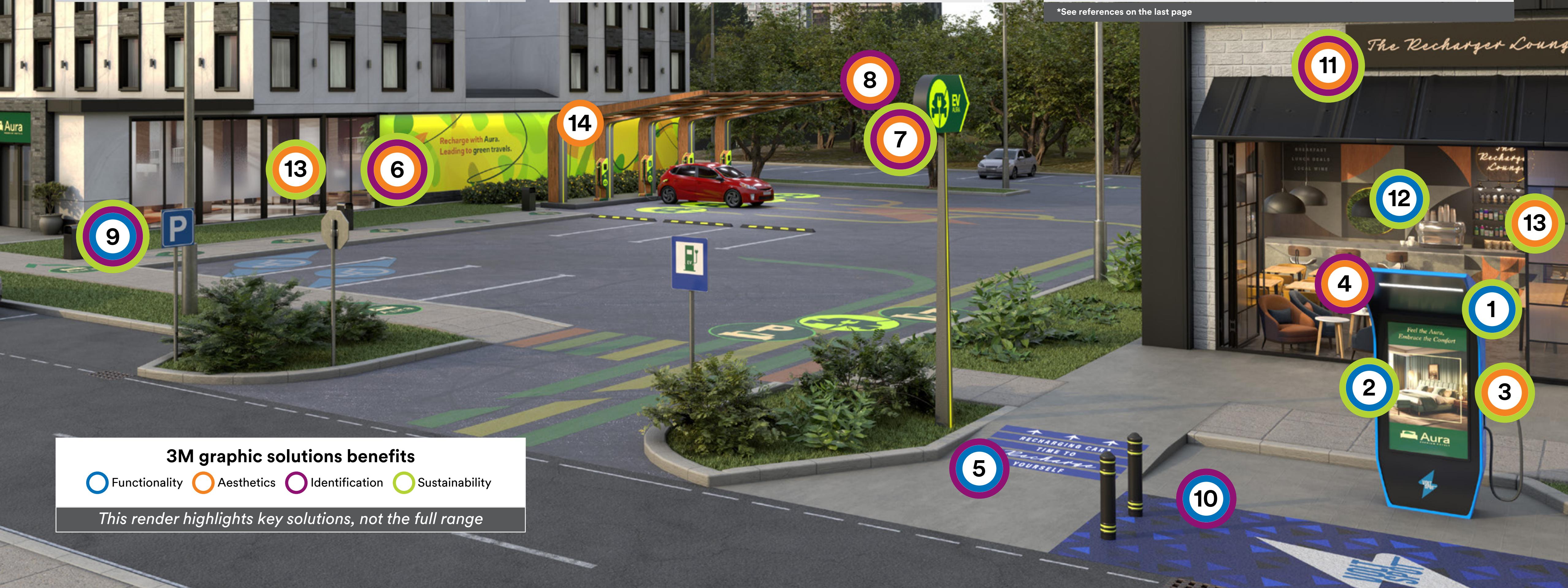
## Charging stations identification

Application	3M solution*	#
Wayfinding (floor and wall graphics)	Printable Safety-Walk™ – SW588	5
	SV480 Non-PVC wrap film <sup>⑰</sup>	6
Illuminated Signage	Translucent film – 3730 <sup>⑰</sup>	7
	Opaque films – SC100	8
Vertical Signage	Diamond Grade <sup>⑰</sup>	9
Parking lots marking	Pavement Marking – 6250	10

## Charging stations upgrade

Application	3M solution*	#
Signage for totem and convenience store entrance	Flexible Substrate FS-6 <sup>⑰</sup>	11
Convenience store windows protection	Sun control film – Prestige 70 ext <sup>⑯</sup>	12
Convenience store – windows and (glass) doors decoration	FASARA™ films <sup>⑮ ⑰</sup>	13
Canopies and shelters personalization	DI-NOC™ Exterior films	14

\*See references on the last page





## Charger wrapping

Application	3M solution*	#
EV chargers' surface protection	Antigraffiti – 8993 <sup>13</sup>	1
EV chargers' glass displays protection	Sun control films – Prestige 70 <sup>6</sup>	2
EV chargers' surfaces branding and personalization	Print wrap film – 480 Non-PVC <sup>7</sup>	3
	Reflective films – 580	4

## Charging stations identification

Application	3M solution*	#
Stairs and platforms anti skid	Printable Safety-Walk™ – SW588	5
Illuminated Signage	Translucent film – 3730 <sup>9</sup>	6
	Opaque films – SC100	7
Parking lots marking	Pavement Marking – 6250	8

## Charging stations upgrade

Application	3M solution*	#
Signage for totem and convenience store entrance	Flexible Substrate FS-6 <sup>10</sup>	9
Convenience store windows protection	Sun control film – Prestige 70 ext <sup>6</sup>	10
Convenience store – windows and (glass) doors decoration	FASARA™ films <sup>17 15</sup>	11

\*See references on the last page



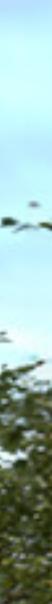
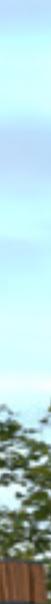
### 3M graphic solutions benefits

Functionality Aesthetics Identification Sustainability

This render highlights key solutions, not the full range



Entrance  
Aura





## Charger wrapping

Application	3M solution*	#
EV chargers' surface protection	Antigraffiti – 8993 <sup>(13)</sup>	1
EV chargers' glass displays protection	Sun control films – Prestige 70 <sup>(6)</sup>	2
EV chargers' surfaces branding and personalization	Print wrap films – IJ180mc LSE, IJ280	3
	DI-NOC™ Ext	4

## Charging stations identification

Application	3M solution*	#
Wayfinding – floor and wall graphics	Printable Safety-Walk™ – SW588	5
	Print wrap films – IJ40, 3662, 3647	6
	SV480 Non-PVC wrap film <sup>(7)</sup>	7
Parking lots marking	Pavement Marking – 6250	8
Carport identification	Reflective films – 580	9

\*See references on the last page

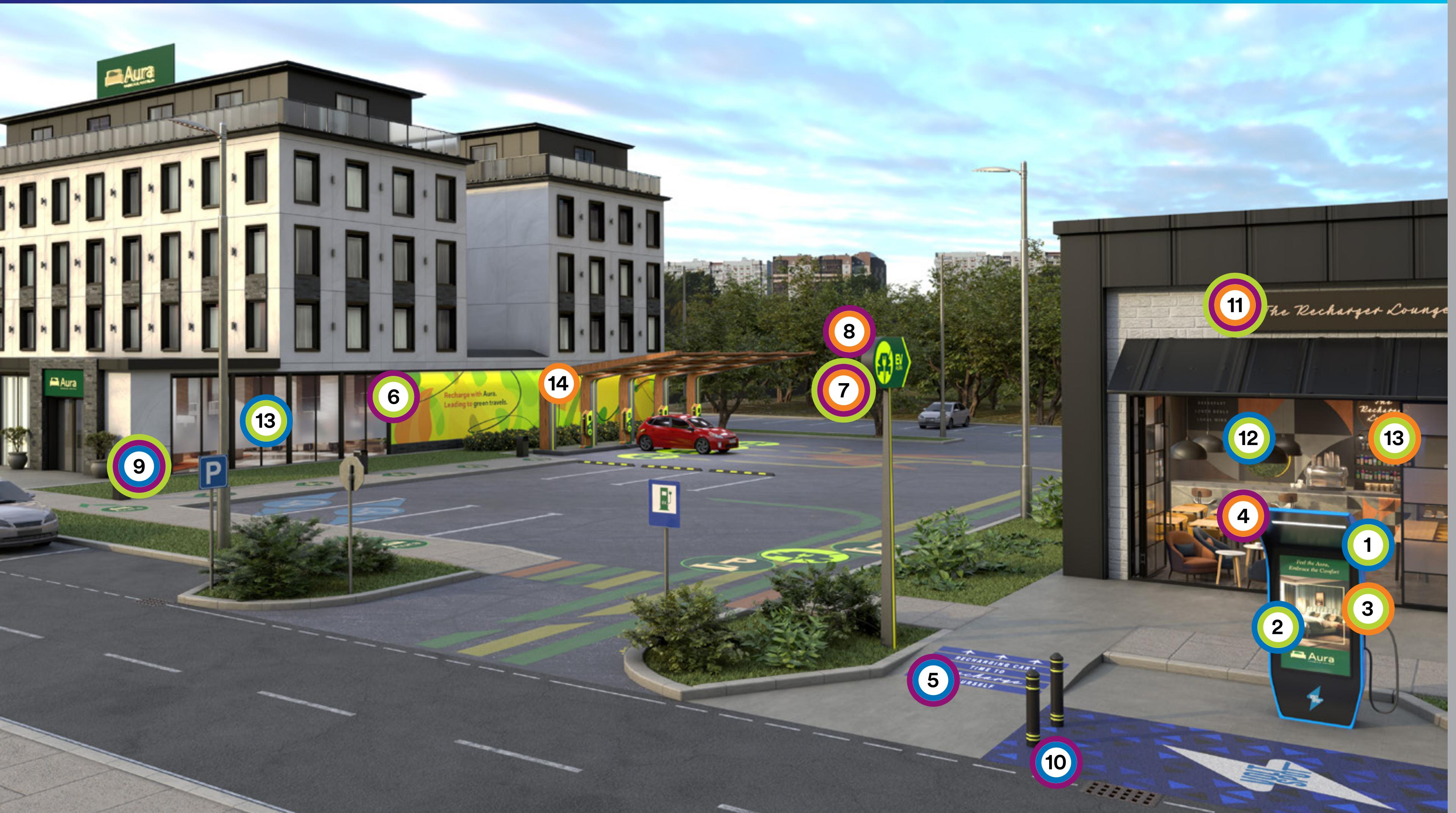
### 3M graphic solutions benefits

 Functionality  Aesthetics  Identification  Sustainability

*This render highlights key solutions, not the full range*

# 3M graphic solutions for EV charging stations

- ✓ EV charger wrapping – Turn chargers into branded assets
- ✓ EV charging station identification – Improve wayfinding and maintain brand consistency
- ✓ EV charging station upgrades (and new builds) – Modernize old O&G stations, build new ones, and enhance impact



Application	3M solution*	#	Benefit
Chargers' surfaces protection	Overlaminate	1	Functionality Aesthetics
	Antigraffiti <sup>13</sup>	1	Identification Sustainability
Glass displays protection	Sun control films <sup>6</sup>	2	Functionality Sustainability
	Safety films		Functionality
	IJ180, IJ280		Aesthetics
	Envision™ range <sup>7</sup>	3	Aesthetics Sustainability
	Reflective films	4	Aesthetics
	Intermediate films		Aesthetics
Chargers' surfaces decoration – digital print films	Opaque films		Aesthetics
	Translucent films		Aesthetics
	2080 films		Aesthetics
	DI-NOC™ Ext		Aesthetics
Chargers' surfaces decoration – colored films	Stairs and platform anti skid	5	Functionality Aesthetics
	Floor wayfinding	IJ40, 3662, 3647	Functionality
	Wall and doors wayfinding	IJ180 / Envision™ range <sup>7</sup>	Functionality Sustainability
Carport identification	Reflective films		Aesthetics
	Translucent <sup>9</sup>	7	Aesthetics Sustainability
Illuminated signage	Flexible Substrate <sup>10</sup>		Aesthetics Sustainability
	Opaque films	8	Aesthetics
Vertical Signage	EG, HI, DG <sup>8</sup>	9	Functionality Aesthetics Sustainability
Parking lot marking	6250, 290, 340	10	Functionality Aesthetics
Roads marking	Temporary and durable Starmark™		Functionality Aesthetics
Signage for totem and convenience store entrance	Translucent <sup>9</sup>		Aesthetics Sustainability
	Flexible Substrate <sup>10</sup>	11	Aesthetics Sustainability
Convenience store windows and (glass) doors protection	Sun Control films <sup>6</sup>	12	Functionality Aesthetics
	Safety Films		Functionality
Convenience store windows and (glass) doors decoration	FASARA™ films <sup>15,17</sup>	13	Aesthetics Sustainability
Convenience store exterior branding and decoration	Digital Print films <sup>7</sup>		Aesthetics Sustainability
	DI-NOC™ films <sup>16,17</sup>		Aesthetics Sustainability
	Opaque films		Aesthetics
Convenience store interior branding and decoration	Digital Print films <sup>7</sup>		Aesthetics Sustainability
	DI-NOC™ films <sup>16,17</sup>		Aesthetics Sustainability
Canopies and shelters personalization	DI-NOC™ Exterior	14	Aesthetics

\*See references on the last page

## 3M graphic solutions benefits

Functionality Aesthetics Identification Sustainability

This render highlights key solutions, not the full range

## 2nd Case

A new charging station scenario



## Charger wrapping

Application	3M solution*	#
EV chargers' surface protection	Antigraffiti – 8993 <sup>13</sup>	1
EV chargers' glass displays protection	Safety films – S70X	2
EV chargers' surfaces personalization	Print wrap film – IJ180mc LSE	3
	Reflective films – 580	4
	DI-NOC™ Ext	5

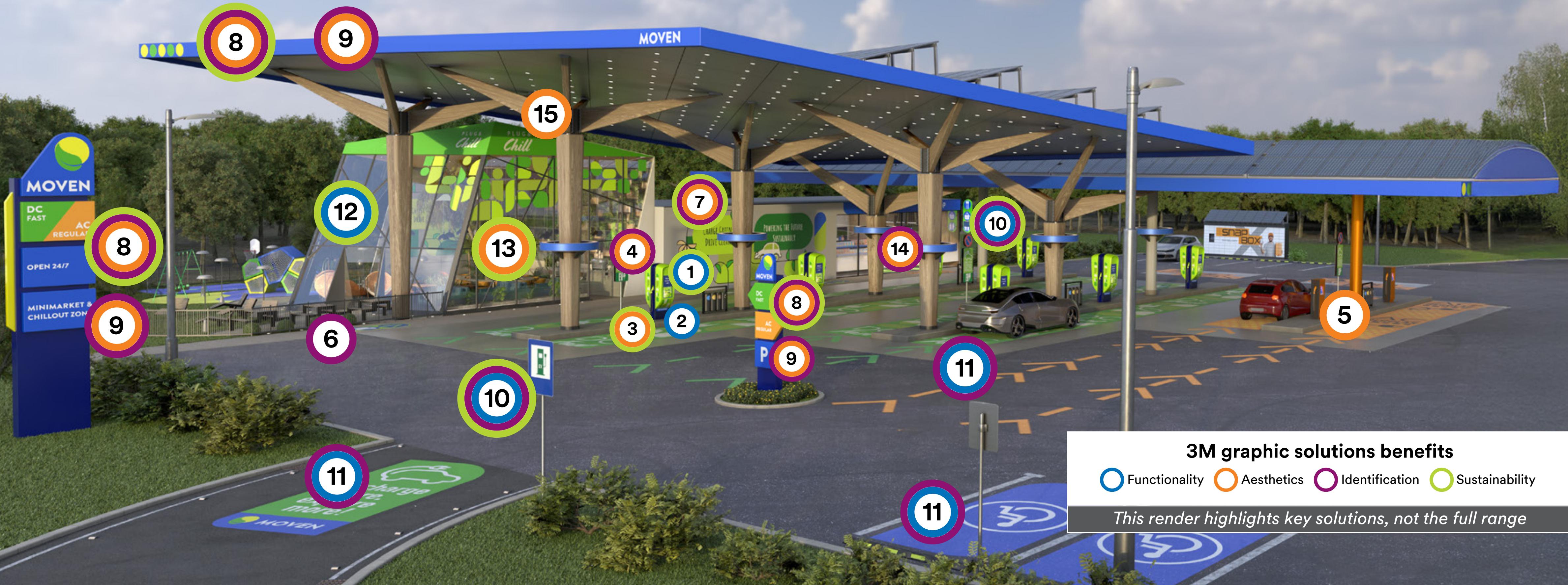
## Charging stations identification

Application	3M solution*	#
Wayfinding – floor graphics	Print wrap film: IJ40, 3662 & 3647	6
Wayfinding – wall graphics	SV480 Non-PVC wrap film <sup>7</sup>	7
Illuminated Signage	Translucent film – 3730 <sup>9</sup>	8
	Opaque films – SC100	9
Vertical Signage	Diamond Grade <sup>8</sup>	10
Parking lots marking	Pavement Marking – 6250	11

## Charging stations upgrade

Application	3M solution*	#
Convenience store – windows and (glass) doors protection	Sun control film – Prestige 70 ext <sup>6</sup>	12
Convenience store – windows and (glass) doors decoration	FASARA™ films <sup>15, 17</sup>	13
Convenience store – exterior branding and decoration	Opaque Color Film – SC100	14
Canopies and shelters personalization	DI-NOC™ Exterior films	15

\*See references on the last page



## Charger wrapping

Application	3M solution	#
EV chargers' surface protection	Antigraffiti – 8993 <sup>13</sup>	1
EV chargers' glass displays protection	Safety films – S70X	2
EV chargers' surfaces personalization	Print wrap film – IJ180mc LSE	3
	Reflective films – 580	4
	DI-NOC™ Ext	5

## Charging stations identification

Application	3M solution	#
Wayfinding – floor graphics	Print wrap film: IJ40, 3662 & 3647	6
Wayfinding – wall graphics	SV480 Non-PVC wrap film <sup>7</sup>	7
Illuminated Signage	Translucent film – 3730 <sup>9</sup>	8
	Opaque films – SC100	9
Vertical Signage	Diamond Grade <sup>8</sup>	10
Parking lots marking	Pavement Marking – 6250	11

## Charging stations upgrade

Application	3M solution	#
Convenience store – windows and (glass) doors protection	Sun control film – Prestige 70 ext <sup>6</sup>	12
Convenience store – windows and (glass) doors decoration	FASARA™ films <sup>15,17</sup>	13
Convenience store – exterior branding and decoration	Opaque Color Film – SC100	14
Canopies and shelters personalization	DI-NOC™ Exterior films	15

\*See references on the last page





## Charger wrapping

Application	3M solution*	#
EV chargers' surface protection	Antigraffiti – 8993 <sup>13</sup>	1
EV chargers' glass displays protection	Safety films – S70X	2
EV chargers' surfaces personalization	Print wrap film – IJ180mc LSE	3
	Reflective films – 580	4

## Charging stations identification

Application	3M solution*	#
Vertical Signage	Diamond Grade <sup>8</sup>	5
Parking lots marking	Pavement Marking – 6250	6
Stairs and platforms anti skid	Printable Safety-Walk™ – SW588	7

## Charging stations upgrade

Application	3M solution*	#
Signage for totem and convenience store entrance	Translucent film – 3730 <sup>9</sup>	8
	Flexible Substrate – Panographics FS-6 <sup>10</sup>	9
Convenience store – windows and (glass) doors protection	Sun control film – Prestige 70 ext <sup>6</sup>	10
Convenience store – windows and (glass) doors decoration	FASARA™ films <sup>15 17</sup>	11
Convenience store – exterior branding and decoration	Print wrap film - LX/SV480 Non-PVC <sup>7</sup>	12
	Opaque films – SC100	13
Canopies and shelters personalization	DI-NOC™ Exterior films	14

\*See references on the last page

### 3M graphic solutions benefits

- Functionality
- Aesthetics
- Identification
- Sustainability

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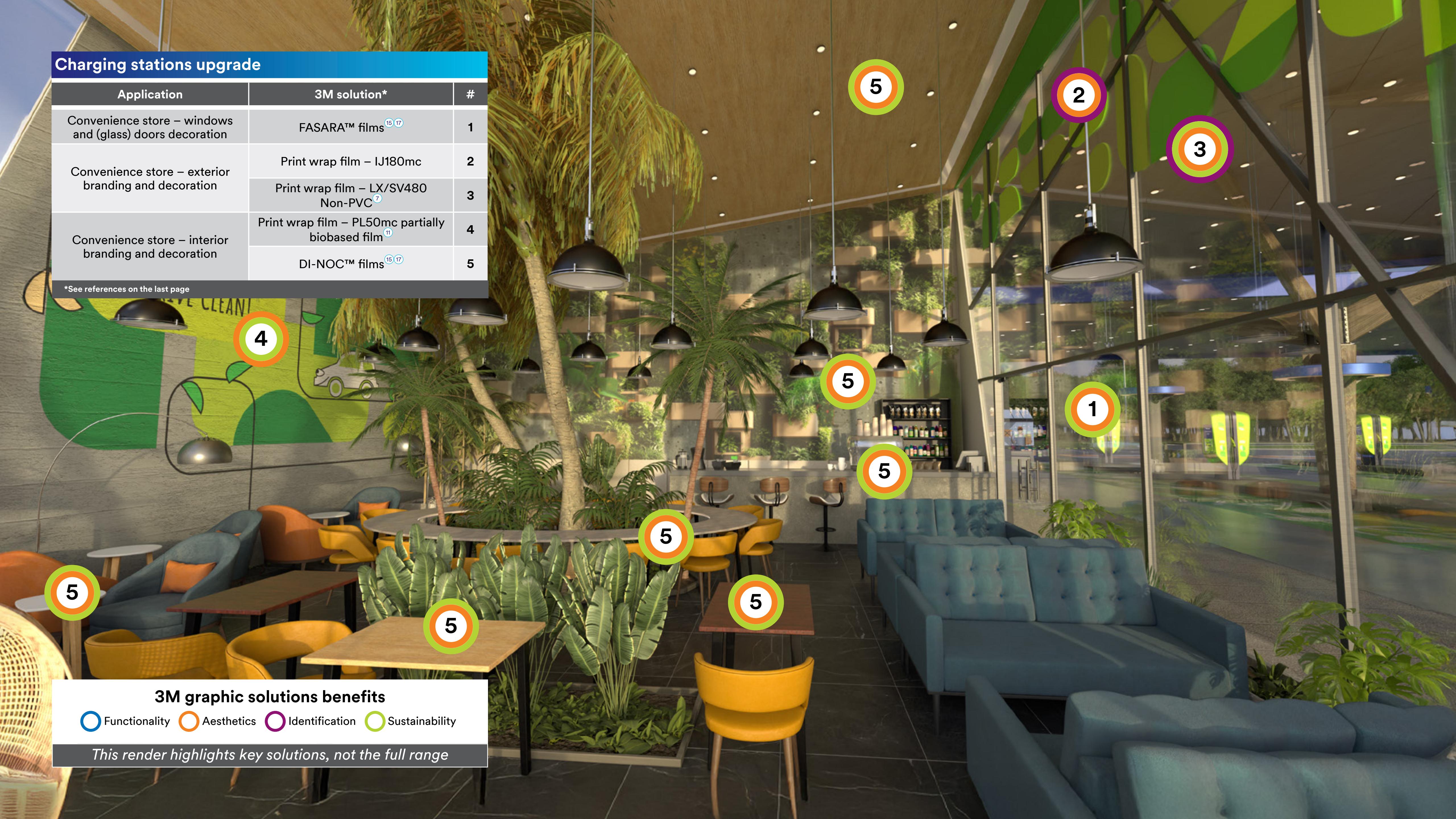




## Charging stations upgrade

Application	3M solution*	#
Convenience store – windows and (glass) doors decoration	FASARA™ films <sup>15 17</sup>	1
Convenience store – exterior branding and decoration	Print wrap film – IJ180mc	2
	Print wrap film – LX/SV480 Non-PVC <sup>7</sup>	3
Convenience store – interior branding and decoration	Print wrap film – PL50mc partially biobased film <sup>11</sup>	4
	DI-NOC™ films <sup>15 17</sup>	5

\*See references on the last page



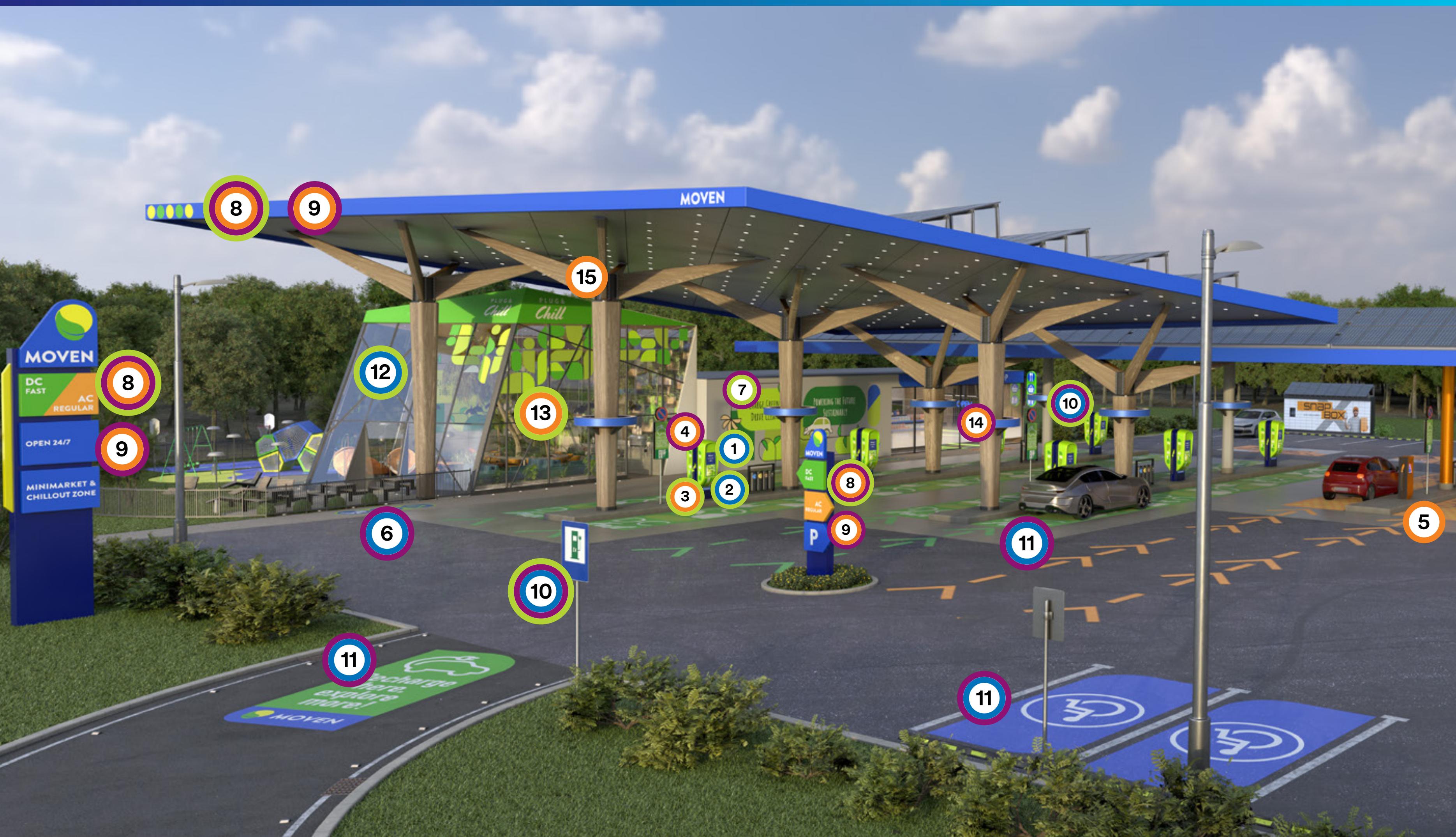
### 3M graphic solutions benefits

- Functionality
- Aesthetics
- Identification
- Sustainability

*This render highlights key solutions, not the full range*

# 3M graphic solutions for EV charging stations

- ✓ EV charger wrapping – Turn chargers into branded assets
- ✓ EV charging station identification – Improve wayfinding and maintain brand consistency
- ✓ EV charging station upgrades (and new builds) – Modernize old O&G stations, build new ones, and enhance impact



Application	3M solution*	#	Benefit
Chargers' surfaces protection	Overlaminate	1	Functionality, Aesthetics
	Antigraffiti <sup>13</sup>	1	Sustainability
Glass displays protection	Sun control films <sup>6</sup>	2	Functionality, Sustainability
	Safety films		Functionality
	IJ180, IJ280		Aesthetics
Chargers' surfaces decoration – digital print films	Envision™ range <sup>7</sup>	3	Functionality, Aesthetics, Sustainability
	Reflective films	4	Functionality, Aesthetics, Identification
	Intermediate films		Aesthetics
Chargers' surfaces decoration – colored films	Opaque films		Functionality, Aesthetics, Identification
	Translucent films		Functionality, Aesthetics, Identification
	2080 films		Aesthetics
	DI-NOC™ Ext	5	Aesthetics
Stairs and platform anti skid	Safety-Walk™ (also printable)	6	Functionality, Identification
Floor wayfinding	IJ40, 3662, 3647		Identification
Wall and doors wayfinding	IJ180 / Envision™ range <sup>7</sup>	7	Functionality, Identification, Sustainability
Carport identification	Reflective films		Functionality, Aesthetics
Illuminated signage	Translucent <sup>9</sup>	8	Functionality, Aesthetics, Identification, Sustainability
	Flexible Substrate <sup>10</sup>		Functionality, Aesthetics, Identification, Sustainability
	Opaque films	9	Functionality, Aesthetics, Identification
Vertical Signage	EG, HI, DG <sup>8</sup>	10	Functionality, Aesthetics, Identification, Sustainability
Parking lot marking	6250, 290, 340	11	Functionality, Identification
Roads marking	Temporary and durable Starmark™		Functionality, Identification
Signage for totem and convenience store entrance	Translucent <sup>9</sup>		Functionality, Aesthetics, Identification, Sustainability
	Flexible Substrate <sup>10</sup>		Functionality, Aesthetics, Identification, Sustainability
Convenience store windows and (glass) doors protection	Sun Control films <sup>6</sup>	12	Functionality, Aesthetics
	Safety Films		Functionality
Convenience store windows and (glass) doors decoration	FASARA™ films <sup>15, 17</sup>	13	Functionality, Aesthetics, Identification, Sustainability
Convenience store exterior branding and decoration	Digital Print films <sup>7</sup>		Functionality, Aesthetics, Identification, Sustainability
	DI-NOC™ films <sup>15, 17</sup>		Functionality, Aesthetics, Identification, Sustainability
	Opaque films	14	Functionality, Aesthetics, Identification
Convenience store interior branding and decoration	Digital Print films <sup>7</sup>		Functionality, Aesthetics, Identification, Sustainability
	DI-NOC™ films <sup>15, 17</sup>		Functionality, Aesthetics, Identification, Sustainability
Canopies and shelters personalization	DI-NOC™ Exterior	15	Aesthetics

\*See references on the last page

## 3M graphic solutions benefits

○ Functionality ○ Aesthetics ○ Identification ○ Sustainability

This render highlights key solutions, not the full range

Go-To-Portfolio-List	Main applications area	Main recommended products*	Product description	Product family	Functionality	Aesthetics	Identification	Sustainability
EV chargers wrapping	EV chargers panels decoration - Digital print films	Envision™ SV480 and LX480 <sup>⑦</sup>	Non-PVC premium wrap film	Digital Print Film – Premium		●		●
		IJ180mC-10 LSE	Premium wrap film for low surface energy substrates	Digital Print Film – Premium		●		
		IJ180mC-10	Premium wrap film	Digital Print Film – Premium		●		
		IJ280	Premium wrap film with highest conformability	Digital Print Film – Premium		●		
		580, 680CR, 780	Reflective film range	Digital Print Film – Premium		●	●	
		Envision™ PL50mC <sup>⑪</sup>	Promotional and ultra removable partially biobased film	Digital Print Film – Premium		●		●
		Envision™ 48 <sup>⑫</sup>	Non-PVC High Performance	Digital Print Film – Intermediate		●		●
		IJ40; 40C	High Performance	Digital Print Film – Intermediate		●		
		IJ35	Basic film	Digital Print Film – Intermediate		●		
		IJ20	Promotional film	Digital Print Film – Intermediate		●		
	EV chargers panels decoration – Colored films	SC100, CT180MC, 3650	Opaque premium colored films	Opaque Color Films		●	●	
		3630, 3730 <sup>⑨</sup>	Translucent colored Films	Illuminated Signage		●	●	
		2080	Car wrap color change film	Personal Auto		●		
		DI-NOC™ EX	DI-NOC™ for exterior	Architectural Finishes		●		
	EV chargers panels protection – Protective overlaminates	8588, 8590, 8993 <sup>⑩</sup>	Antigraffiti film	Digital print film – Premium	●			●
		Overlaminates family	Overlaminates	Digital Print Film – Premium & Intermediate	●	●		
	EV chargers glass displays protection – Protective films	S70X, S40X	Safety films	Architectural Finishes – Window film	●			
		Prestige 90 and 70 exterior <sup>⑩</sup>	Sun Control films	Architectural Finishes – Window film	●			●
EV charging stations identification	Stairs and platforms anti skid	SW 500, 600, 700 Series	Safety-Walk™	Floor Safety	●			
		SW 588, 688	Printable Safety-Walk™	Floor Safety	●		●	
	Floors wayfinding	IJ40, 3662 & 3647	Floor graphics	Digital Print Film – Intermediate			●	
	Walls and doors wayfinding	IJ180, Envision™ SV480 & LX480 <sup>⑦</sup>	Wall and doors graphics	Digital Print Film – Intermediate			●	
	Carport identification	580, 680CR, 780	Reflective film range	Digital Print Film - Premium		●	●	
	Illuminated Signage	3630, 3730 <sup>⑨</sup>	Translucent Colored Films	Illuminated Signage		●	●	●
		Panographics <sup>⑯</sup>	Flexible Substrate	Illuminated Signage			●	●
		SC100, CT180MC, 3650	Opaque premium colored films	Opaque Color Films		●	●	
	Vertical Signage	4090 Series <sup>⑮</sup>	3M™ Diamond Grade	Vertical Signage	●		●	●
		3930 Series	3M™ High Intensity	Vertical Signage	●		●	
		7600 Series	3M™ Engineering Grade	Vertical Signage	●		●	
	Parking lots marking	6250	3M™ Pavement Marking Material	Pavement Marking	●		●	
		290	3M™ Raised Pavement Marker	Pavement Marking	●		●	
	Guardrail application	340 Series	3M™ Linear Delineation System	Vertical Signage	●		●	
	Roads marking	650, 730, 710, 721 Series	3M™ Temporary Stamark™ Tapes	Pavement Marking	●		●	
		380 Series	3M™ Durable Stamark™ Tapes	Pavement Marking	●		●	
New EV Charging Stations Design and Traditional Oil & Gas stations modernization	Signage for totem and convenience store entrance	3630, 3730 <sup>⑨</sup>	Translucent colored films	Illuminated Signage		●	●	●
		Panographics <sup>⑯</sup>	Flexible Substrate	Illuminated Signage		●	●	●
	Canopies and shelters decoration	DI-NOC™ EX	DI-NOC™ for exterior	Architectural Finishes		●		
	Convenience store windows and (glass) doors protection	Prestige 70, 40 exterior <sup>⑯</sup>	Sun Control Films	Architectural Finishes – Window film	●			●
		S800 (premium); S40 or S70	Safety and Security Fims	Architectural Finishes – Window film	●			
		AG4	Antigraffiti Film	Architectural Finishes	●			
	Convenience store windows and (glass) doors decoration	FASARATM <sup>⑯⑰</sup>	FASARA™ Films	Architectural Finishes		●		●
		8150 clear view film	Highly transparent print film	Digital Print Film – Premium	●	●	●	
	Convenience store exterior branding and decoration	SC100, CT180MC, 3650	Opaque premium colored films	Opaque Color Films		●	●	
		LX/SV480 <sup>⑦</sup> , IJ180mC	Digital Print Films for Exteriors	Digital Print Film – Premium		●	●	●
		Solid color, metallic – DI-NOC™ EX	Architectural Finishes for Exteriors	Architectural Finishes		●		●
	Convenience store interior branding and decoration	PL50mC <sup>⑪</sup> , IJ40, Envision™ 48 <sup>⑫</sup>	Digital Print Films for Interiors	Digital Print Film – Premium		●		●
		DI-NOC™ <sup>⑯⑰</sup>	DI-NOC™ Films	Architectural Finishes		●		●
		IJ40, 3645	Floor graphics for Interiors	Digital Print Film – Intermediate			●	

\*See references on the last page

## References

- ① Verbandes der Automobilindustrie (VDA). – German Automotive Industry Association
- ② EY. (n.d.). Six essentials for mainstream EV adoption. Retrieved from [https://www.ey.com/en\\_gl/insights/energy-resources/six-essentials-for-mainstream-ev-adoption](https://www.ey.com/en_gl/insights/energy-resources/six-essentials-for-mainstream-ev-adoption)
- ③ International Energy Agency (IEA). (2024). Global EV outlook 2024: Outlook for electric vehicle charging infrastructure. Retrieved from <https://www.iea.org/reports/global-ev-outlook-2024/outlook-for-electric-vehicle-charging-infrastructure>
- ④ Global Market Insights. (n.d.). Europe electric vehicle charging station market. Retrieved from <https://www.gminsights.com/industry-analysis/europe-electric-vehicle-charging-station-market>
- ⑤ Euronews & European Commission. (2024). Electric vehicles: Could improved charging stations increase demand for EVs? Retrieved from <https://www.euronews.com/next/2024/12/03/electric-vehicles-could-improved-charging-stations-increase-demand-for-evs>
- ⑥ 3M™ Sun Control Window Film Prestige 70, 70 ext and 40 series are EPD registered. See details on [www.environdec.com](http://www.environdec.com)
- ⑦ 3M™ Envision™ Wrap Films LX480mC and SV480mC are manufactured using 58% less solvent when compared to IJ180Cv3, 8518, and 8519.
- ⑧ Reflective DG3 films reduce the need for sign lighting – Case study available upon request.
- ⑨ 3M™ Envision™ Translucent Film Series 3730 is optimised for use with LEDs and reduces electricity consumption for illuminated signs – Case study available upon request.
- ⑩ 3M™ Envision™ Flexible Substrate FS-1 is optimised for the use of LEDs and provides nearly twice the light transmission of unprocessed 3M™ Panographics™ III Wide Width Flexible Substrate. Case study available upon request.
- ⑪ 3M™ Envision™ Print Film PL50mC Product made from 40% bio-based materials, in part from non-food source corn, percentage based on film and adhesive only, according to ASTM D6866.
- ⑫ 3M™ Envision™ Wrap Film 48 is a non-PVC film.
- ⑬ Antigraffiti 8993 reduces the need for cleaning on a wrapped surface by 50% versus painted surface. Based on an independent 3rd party research for a leading Rail operator. NS/Dekra presented at Elcomat 2018 for 180mc and SG8993.
- ⑭ 3M™ Envision™ Wrap Films LX480mC and SV480mC, 3M™ Envision™ Print Film PL50mC are GREENGUARD Gold certified, which requires that products meet some of the world's most rigorous third-party testing standards for low emissions of volatile compounds into indoor environments.
- ⑮ LEED certification is backed by the U.S. Green Building Council. LEED certified projects demonstrate adherence to prerequisites and credits that address carbon, energy, waste, transportation, materials, health, and indoor environmental quality. For more information, visit: [LEED rating system | U.S. Green Building Council](https://www.usgbc.org/leed-rating-system).
- ⑯ CPX measurements of pavement markings, Müller-BBM GmbH, report no. M82 085/1 of 17 November 2009, presentation by 3M Germany GmbH.
- ⑰ DI-NOC™ finishes and FASARA™ finishes allow you to revamp existing surfaces, reuse materials, and reduce material waste and the need for incineration or landfill without major renovations.