

# 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<sup>TM</sup> exterior, wall displays, floor and pavement markings and Safety-Walk<sup>TM</sup> 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<sup>TM</sup> and FASARA<sup>TM</sup><sup>17</sup> refresh EV charging stations convenience store surfaces without replacement, minimizing landfill waste and contributing to LEED Credits<sup>15</sup>.

## **1st Case**

Destination charge scenario



Aura

Aura

P

Recharge with Aura.  
Leading to green travels.



The Recharger Lounge

BREAKFAST  
LUNCH DEALS  
LOCAL WINE

The Recharger Lounge

Feel the Aura.  
Embrace the Comfort

Aura

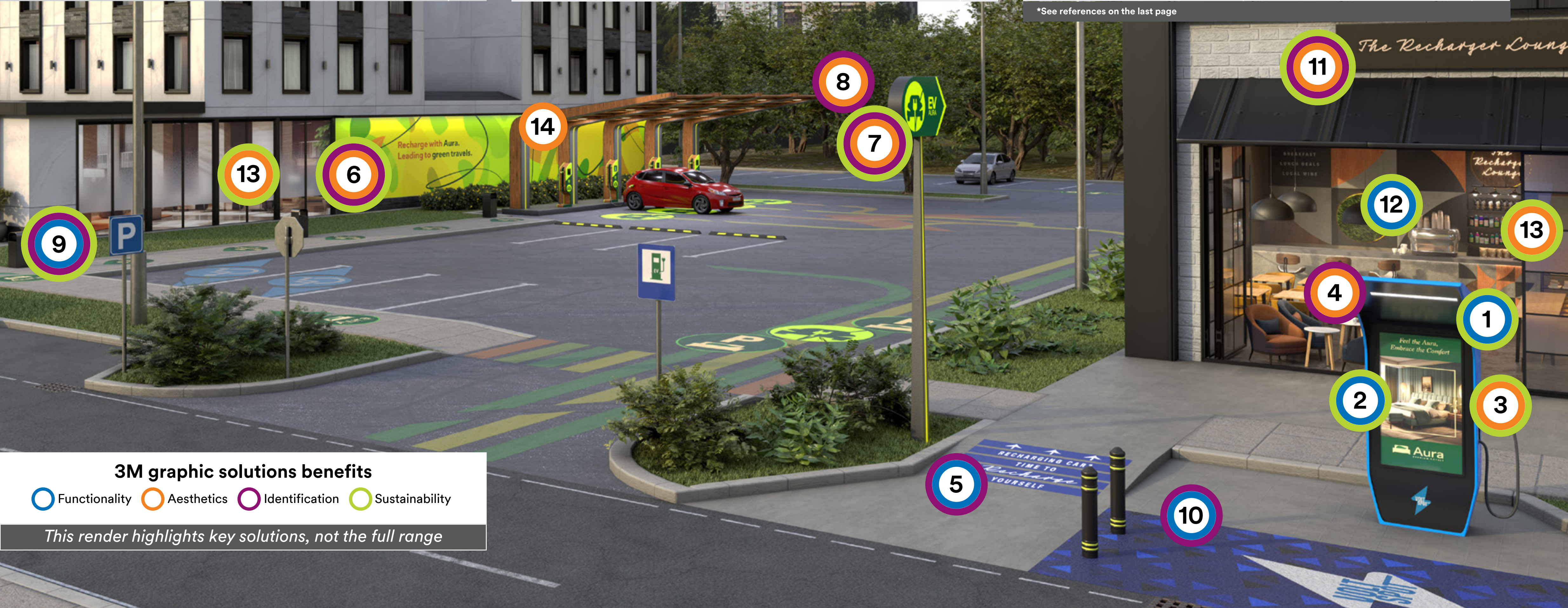
RECHARGING CAR?  
TIME TO  
RECHARGE  
YOURSELF

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*	#
Wayfinding (floor and wall graphics)	Printable Safety-Walk™ – SW588	5
	SV480 Non-PVC wrap film <sup>7</sup>	6
Illuminated Signage	Translucent film – 3730 <sup>9</sup>	7
	Opaque films – SC100	8
Vertical Signage	Diamond Grade <sup>8</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>10</sup>	11
Convenience store windows 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
Canopies and shelters personalization	DI-NOC™ Exterior films	14

\*See references on the last page



3M graphic solutions benefits

Functionality
Aesthetics
Identification
Sustainability

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



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

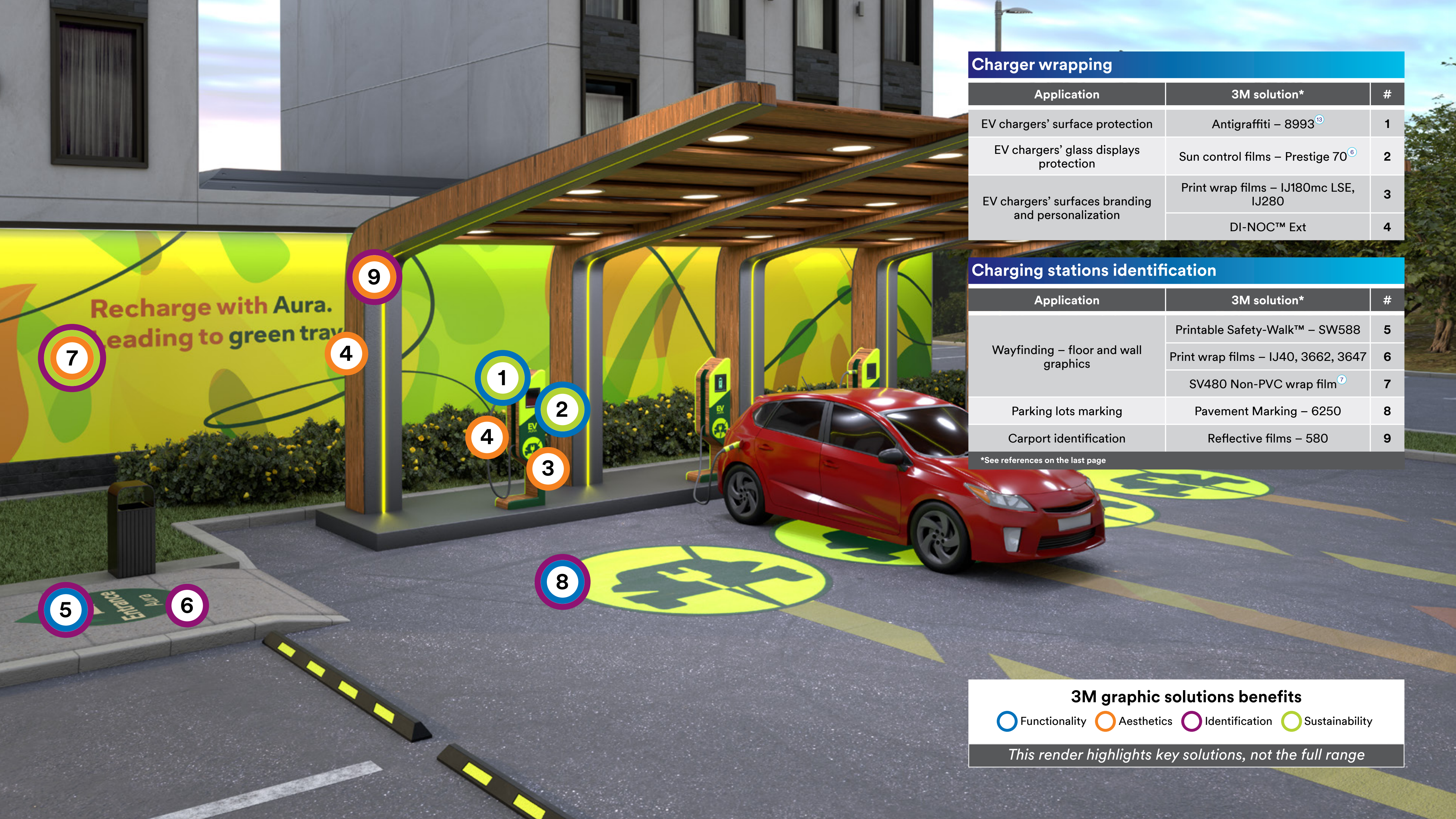
This render highlights key solutions, not the full range





Recharge with Aura.  
Leading to green travel

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

\*See references on the last page

### 3M graphic solutions benefits

○ Functionality   ○ Aesthetics   ○ Identification   ○ Sustainability

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## **2nd Case**

A new charging station scenario



MOVEN

MOVEN

DC

FAST

AC

REGULAR

OPEN 24/7

MINIMARKET &  
CHILLOUT ZONE

MOVEN

DC

FAST

AC

REGULAR

P

CHARGE CRYSTAL  
DRIVING CRYSTAL

POWERING THE FUTURE  
SUSTAINABLY

OPEN

24/7

SNAP  
BOX

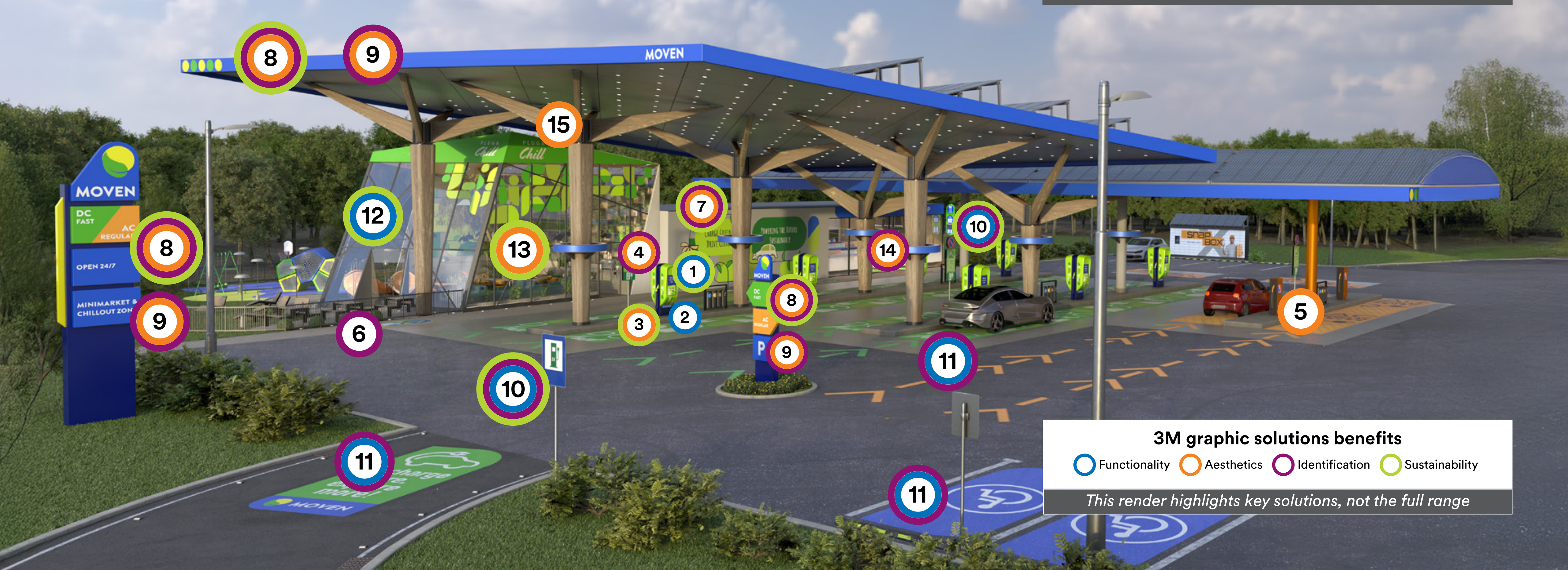
Recharge  
here  
explore  
more!  
MOVEN

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

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3M graphic solutions benefits

○ Functionality
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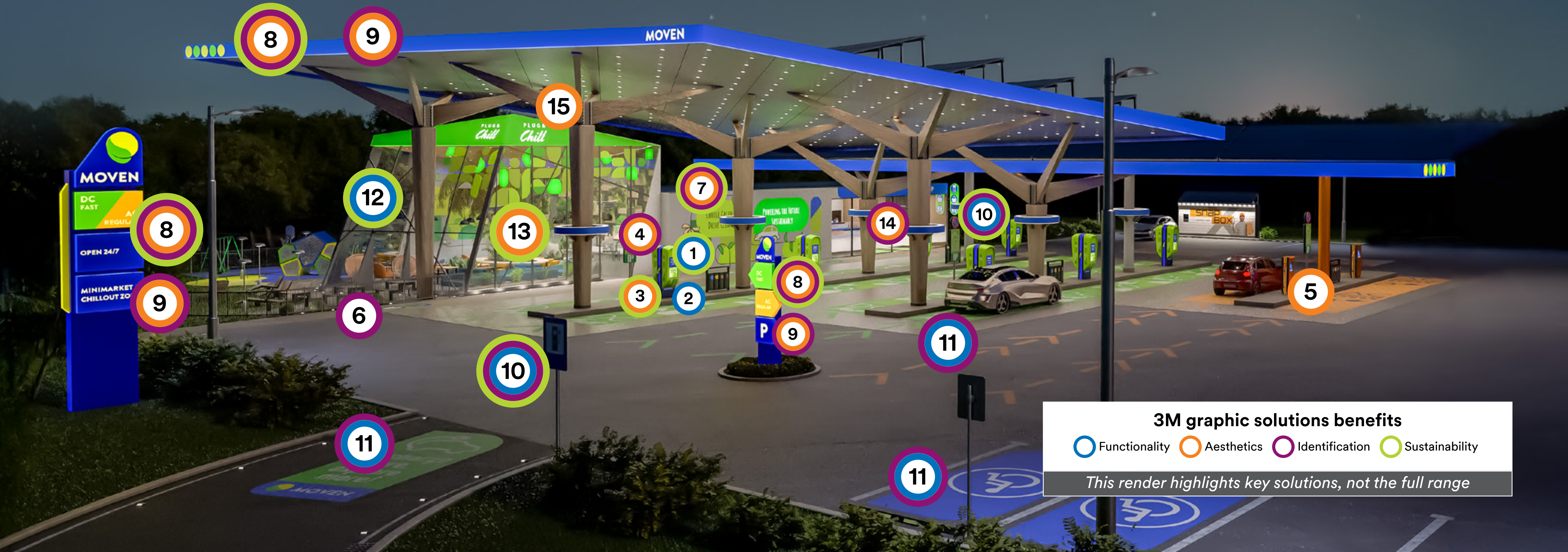
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Charger wrapping		
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EV chargers' surface protection	Antigraffiti – 8993 <sup>13</sup>	1
EV chargers' glass displays protection	Safety films – S70X	2
EV chargers' surfaces personalization	Print wrap 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

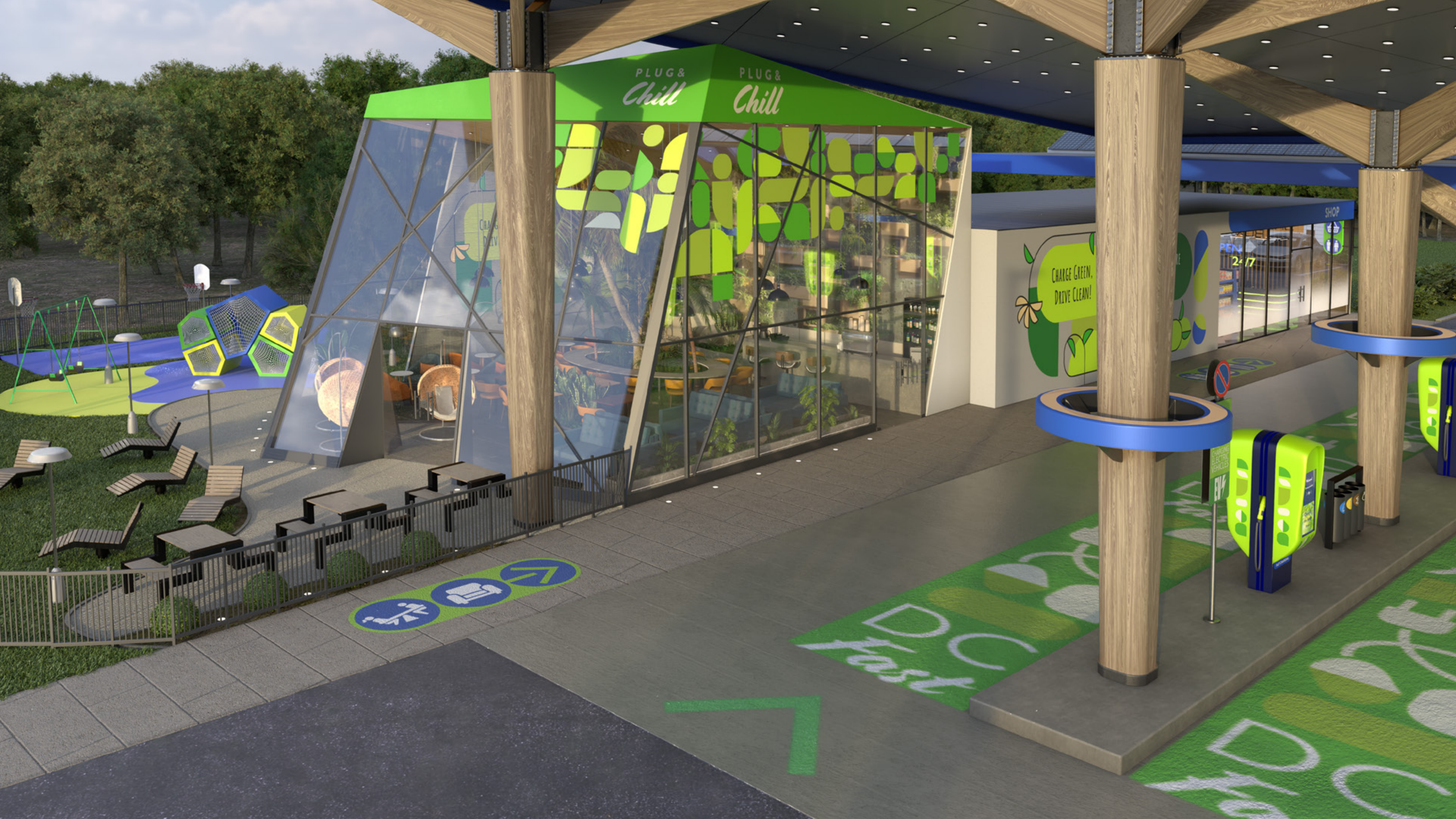
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EV chargers' surfaces personalization	Print wrap film – IJ180mc LSE	3
	Reflective films – 580	4

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 – Panagraphics 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

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3M graphic solutions benefits

Functionality   Aesthetics   Identification   Sustainability

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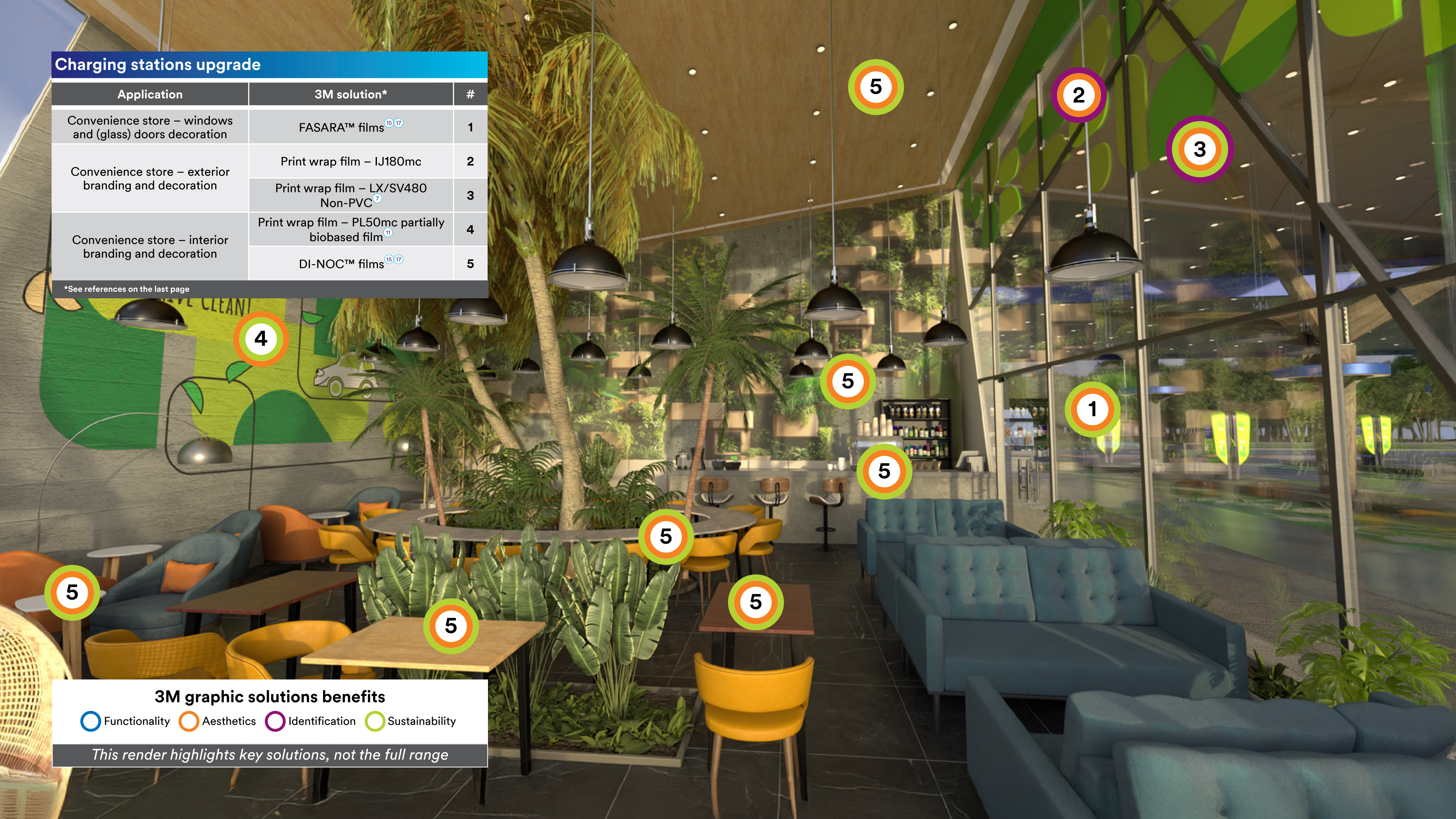




Charging stations upgrade

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

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

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# 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™ Panagraphics™ 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).
- 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.